

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: PaulKB8N@aol.com
Subject: [1835] "From Scratch" Ugly Tuner Kits
Message-ID: <961014155945_126507286@emout20.mail.aol.com>

Gang,

If you are looking for a "from scratch" building opportunity, I have assembled four antenna tuner kits that are \$10.00 each. These are NOT low efficiency subminiature kits, but rather heavy duty components that are capable of 100W and beyond. The catch is: These are not the most beautiful parts around. They are old, but still function as new. With these parts, you can build a Pi-Net tuner that is highly flexible and efficient. This is what is provided:

- One "L" shaped aluminum chassis large enough to accomodate all parts. With some additional panels, this can be easily enclosed into a box.
- One input variable capacitor (approx 400 pf max value)
- One high-Q inductor (approx 15uH)
- One output variable capacitor (approx 500 pf max value)
- Set of building instructions
- A ferrite rod balun kit is available for an additional \$3.00.

You must drill the chassis. The parts aren't beautiful in appearance, but all are useable, capacitors have a useable 1/4 " shaft, and can be mounted using standard hardware. You provide knobs, input and output connectors, and hookup wire. Parts content varies from kit to kit, so let me know what your priorities are (i.e. do you want better 160M capability, or do you want smaller, better looking parts?)

As I've said many times before, I want to encourage building, especially building from scratch. Nothing is more satisfying!!!! Obviously at this price, I'm not encouraging it at a profit. Hope I can help, please include appropriate shipping costs.

72, Paul, KB8N

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: GREGOIRE@ENDOR.COM (ERNEST GREGOIRE)
Subject: [1864] 160 METERS QRP, GETS GUD RST
Message-ID: <199610150013.UAA53721@nss2.CC.Lehigh.EDU>

Hello Gang,

I am putting the finishing touches on an old antenna project. About a year ago, I bought an Inverted L antenna kit, and never put it up.

Today I had my first ever 160 QRP contact. Tha big thrill was chatting with the locals, about 30 miles away on HF. As we talked we did the usual rig, ant, rst stuff. Then we got around to the power out.

Well one guy was using 80 watts, the other about 100, I really surprised them when I said that I was at 2 watts on voice peaks, and about 4 watts on cw.

The inverted L has 9 radial so far,more to follow. Six of which are 1/4 wave. The vertical section is 70 feet and the horizontal is about 53.

This proved to be a little short for a good SWR at the bottom of the band, so I made a load coil out of some scrap # 12 wire. The coil is about 12 inches long and about 4.5 inches wide. I can tune the entire band now.

I'll firm up the coil soon. It's just hanging in midair now at the feed point.

73 de AA1IK
Ernie

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: kt3a@juno.com (Cameron CR Bailey)
Subject: [1850] 6 meter halo info wanted.
Message-ID: <19961014.170957.8183.6.kt3a@juno.com>

I'm trying to rebuild a broken 6 meter halo.
You remember the type from the 60's, I think it was.
They were popular on mobiles with AM rigs.

Anyway, I need the matching information on it.
I want to match it to 50 ohms.
The rest of it is in good shape. I am willing to SASE,
pay for copy costs, etc. Anyone have a manual?
This will be used for 6m QRP BTW.

Please respond direct, not to the list.

72/73
Cameron CR Bailey, KT3A <><
ARCI Board member, QRP-L 7
QRP Society of Central Pennsylvania

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: bmitchel@kodak.com (Brad Mitchell)
Subject: [1801] 80 meter beacon
Message-ID: <9610141622.AA14030@iiatasun.cba.Kodak.COM>

I want to run an 80 meter QRP beacon.
Any suggestions on freqs.

Regards, Brad WB8YGG

QRP-1, ARRL, NORCAL, AWA, INET CIRCA 1984

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [1875] 80 meter QRP beacon Test NOW
Message-ID: <19961014.202754.5223.0.wb8ygg@juno.com>

I am running an 80 meter beacon right this
second. 3564.50

WB8YGG

8:30 PM EST 100 MW

I'll run it for about an hour, then maybe this weekend
I'll fire it up .. attended of course.

73 Brad WB8YGG
Brockport, NY Near Rochester.

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Bruce C. Williams" <n9jcv@wwa.com>
Subject: [1882] 80M QRP help!!!
Message-ID: <Pine.BSD.3.92.961014220805.7492A-100000@shoga.wwa.com>

I have been operating qrp for about 4 years. I have made about 1000
contacts. Probably about 950 have been on 40M. Dont get me wrong here, I
do like 40M and I am very happy with all the contacts, BUT there have been
times when I wanted to work 80M.

Sunday night I tried to make A contact on 80M. I tried calling CQ

for about 20 minutes. Not straight obviously. I listened for replies. But no one heard me. I then searched for someone calling CQ. I heard KORDW calling, I called him back but he didnt hear me. He called CQ again, I called him back again. No he still didnt hear me.

Ok here is my situation, any comments that might net me a contact on 80M qrp would be much appreciated. I live near chicago(the mistake of my life) and live in a subdivision. I am using my Sierra & HW8. I have a 40M dipole that I feed with ladder line (the fat stuff). I have a MFJ antenna tuner. I know I should have an 80M antenna, but I just dont have the room. I am sure there must be other people out there that are using 40M antennas on 80M. If you are and you are having better luck than I please email me with some of your ideas.

Thanks for the bandwidth and time.
Bruce N9JCV Norcal #359

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [1806] AA3MD rig-a-thon continues
Message-ID: <Pine.3.89.9610141106.B5228-01000000@w3eax.umd.edu>

KA3RTE (Govind), NF3I (Scott), and Craig (AA3MD) continued to plot to take over the world...

After a snack, we fired up:

Scott's Argo 556,
Govind's MFJ-9420,
and
Govind's IC-706

The slow tuning of the IC-706 is VERY nice, as is the variable BW control of the Argo/Scout.

Sensitivity:

Pretty close, and both stacked up well against the TS-850s (we had had to move the OMNI rigs to make room for the other radios). The 706 lost the beacon just slightly after the Argo did.

Audio quality:

IMHO, no contest. The Argo has a much quieter receiver, and much less harsh audio. The old, classic, PTO design (no synthesizer) wins. Many

of you, I suspect, expected this.

Ability to not get creamed by strong signals:

Oddly enough, the 706 picked up WTOP 1500 AM very, very well, even though we were on 7.02123 MHz. The Argo, having a tight passband (i.e. not general coverage) was not affected.

Consensus - IC-706 is huge bang for the buck, but a compromise. The Argo/Scout are excellent sounding receivers and are much more limited (and much cheaper, too).

Footnote on the MFJ-9420 20m SSB xcvr

I did not get to xmit through it, although it SOUNDS very, very good. Audio is crisp and loud. I DO have one gripe, though - it only tunes from 14.150 - 14.350. I suspect the CW adapter re-tunes the range, but one great use of this rig would be driving a Ten-Tec 20-to-6 transverter. Of course, this would mean it would drive it from 50.150 - 50.350 SSB, while the calling freq. is 50.125, and the DX SSB window is from 50.100 - 50.125,

I suspect dropping the lower end of the tuning range wouldn't be that hard, but it would be nice if it covered the whole 20m band out of the box. BTW, at the price of the 6m MFJ-9406, one could buy the 20m version and a Ten-Tec 1208 xverter for just a little more.

Boy, was this fun! Scheming on new antennas, too...

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Stanley Wilson <microres@crl.com>
Subject: [1757] AK0B/B BEACON RESULTS - 10/12/1996
Message-ID: <Pine.SUN.3.91.961013160841.21022A-100000@crl13.crl.com>

Call: AK0B/B
Frequency: 7021.150 khz
From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [1860] All band vertical to vert. dipole
Message-ID: <n1366803371.66325@msmailgw1.arlut.utexas.edu>

Joel,

Be alert to the fact not all commercial verticals are suited for being half of a vertical dipole.

The Cushcraft R5 and R7 series, (and perhaps the R7000), are affected by the presence or absence of their short "radial" rods that stick out below the matching box. If these were removed, the antenna might not tune properly with the factory dimensions to where you want. With them present, and radials, they might not prevent the lower 33 foot mast from acting as half a dipole, but it is not what the antenna was intended to do, and there would be interaction.

All Gap models are already asymmetric vertical dipoles, fed well up the antenna element, thus would require some sort of phasing network, below them for any resonant mast to be of help. Those models with counterpoises probably could not be so modified. Doing what you suggest to a Gap or MFJ, would be akin to the VHF Ringo Ranger, which is really two verticals stacked needing the quarter wave phasing line connecting their ends.

The MFJ vertical is end loaded at both ends, and as such also would be problematic, as the bottom loads go out to the side.

The Butternut HF series would be a possible candidate.

By far the lowest cost candidates are the helical whips or Hustler type mobile mounts and center load coils.

It might be interesting to combine this idea with one of the Screwdriver base loaded mobile whip designs, and have the control voltage for the screw motor go up inside the lower mast. Ferrite beads would decouple RF from motor wiring. The Screwdriver antenna can be obtained widely and home brewed. It is really a reincarnation of the DK3 shown in "Forty Years of Mobiling"

But the best results are going to be with full size quarter wave elements above and below the central feed point.***You want to maximize the capture area of any antenna, while maintaining a resonant condition***

With cost an issue, why not homebrew the top half as well as the bottom? Perhaps you could use Aluminum irrigation pipe, or conduit for the upper mast, and with clamps, parallel some wires cut for quarter waves on the various higher bands, and have these all in parallel at the central insulator. The wires could stand off the upper mast some convenient distance like six inches.

The closer they are to the mast, the more effect on what their resonant length would be, and an MFJ or Autek analyzer would be a valuable tune up tool. The base mast could be handled the same way. Because the end of a dipole is a higher voltage and high impedance point, you want to keep it above the physical earth some safe distance, perhaps such that you could walk under

it. It needs to be high enough that children or pets would not be able to touch it.

Another vertical of the trap type that could be used might be the Hy Gain AVQ 14 or 18. Note the Vertical Windom being advertised now, would Not be a suitable candidate.

Not all verticals are the same, and we often gloss over their very real differences in operation in the ham community; especially by those who claim all verticals work equally poorly in all directions! For the real estate challenged ham, verticals of the elevated type are effective DX antennas. Vertical dipoles need more use and experimentation, and I hope you will and wish you well in it.

72, Stuart K5KVH
rohre@arlut.utexas.edu

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Mike Duke <gmduke@oscar.TECLink.Net>
Subject: [1872] AM
Message-ID: <Pine.GS0.3.95.961014205040.27683E-100000@oscar.teclink.net>

While we're talking about AM, don't forget 10 meters. As a 15 year-old general, it was the only place where I wouldn't get cussed or clobbered with my Viking Ranger in 1970. I still love it, and now have a Gonset G28 which I acquired for a wonderful bargain about 6 years ago.

Anybody got a Lafayette HA-410 under the bed? Wanta get rid of it?

Mike Duke, WB5ADC, Jackson, MS

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "William R. Colbert (also af852@rgfn.epcc.edu)" <V31XE@dzn.com>
Subject: [1759] amateur practice exams
Message-ID: <32618B54.40A@dzn.com>

Someone was asking earlier for a url for a practice Advanced class written exam. I just came across this while searching thru one of the many ham radio pages: <http://w5ac.tamu.edu/ham-exam/>
According to the info, it has sections for Novice thru Advanced.
click on the exam you are interested in and it apparently generates

the exam at that time. Hope this helps and good luck.
Ray

--

72/73, Ray Colbert, W5XE,
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: dmatt@roch875.mc.xerox.com
Subject: [1824] Antenna advice needed
Message-ID: <Chameleon.961014144009.dmatt@dmatthews2>

This weekend is scheduled as put up the antennas weekend. My wife finally noticed the hunk of metal laying on the roof - the bolt that I attached to toss a length of wire on the roof to listen on 40.

The burning question is should I put up a 40m dipole strung between two trees (figure 35-40' on one end and 25' on the other) or should I put up a 1/4 wave vertical next to a tree? The vertical would be 15-20' from my aluminum sided house and hidden in a tree. The vertical could even be 33ish feet of wire tossed into the branches with the radials laying on the ground. They will soon be well covered here.

One other option would be to put the vertical on the roof. Could I hook to the aluminum siding to act as a counterpoise?

Dave - KB2YWT

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: PDouglas12@aol.com
Subject: [1873] ARRL Hudson Div Convention
Message-ID: <961014215347_333909208@emout04.mail.aol.com>

Gang,

Who's going to be at the ARRL Hudson Division Convention at the Huntington Long Island Hilton on Sunday Oct 20? That's this Sunday guys. Any locals in the NYC metro area? How many plan to be there. Please email me directly, so we don't clog up the list.

72,

Preston WJ2V

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: "Jon Iza" <iapizloj@bicc00.bi.ehu.es>

Subject: [1780] Automatic tuner AT-11 on QRP

Message-ID: <199610141114385824.iapizloj@bi.ehu.es>

Gang,

I've translated for the Spanish ham journal Radioaficionados the article from QST about the AT-11 automatic tuner. I got some information about putting it to work at QRP-levels, and Vicens, EA3ADV, has giving me some feedback (in fact, a correction).

To use the tuner with QRP levels, the input transformer has to change from 14 turns on the secondary to 10 (or 12) turns. The idea behind it is to get a coupling factor of 20 dB, just as Doug DeMaw did on his QRP Design Handbook, and W7EL on his famous wattmeter.

Other than that, the frequency response is enhanced if the core is changed to -61 material (FT-37-61), or even better -72 or -73 material, instead of the -43 material used originally.

Not much now. I look forward to comments or suggestions, since I have to submit an "update" to the journal.

be well. 72 + 73 de

jon, ea2sn

Dr. Jon Iza / Chem.& Environ. Engngn. / University of the Basque Country

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Alameda de Urquijo s/n Fax +34 (9)4 441 4041

E-48013 Bilbao, Spain Ham ea2sn <= lowercase: I'm a qrp'er!

** One's needs are proportional to the square of his/her incompetence **

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: Bob Hightower <ki7mn@dancris.com>

Subject: [1808] Blacked Out Pages

Message-ID: <199610141704.KAA19020@dancris.com>

I have posted on my web page a copy of the Page 20 of the Sept QRPP that was blacked out. Still trying to get page 36 done so it is readable. You can get there either via <http://www.dancris.com/~ki7mn> or directly at <http://www.dancris.com/~ki7mn/pg20.html>

73,

Bob, KI7MN QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, not in any order of importance.

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [1839] broadband (was Re: HB:)
Message-ID: <Roam.3.0.845324525.9875.myers@bigboy>

> Brad,
>
> There is a tradeoff, well more than one.
>
> 1. Broadband usually means losses in several critical
> tuned circuits. Remember bandwidth is proportional
> to $1/Q$, so wide band means low Q .

Doesn't lower Q requirement in a filter reduce the losses due to component Q ? Sharper filters mean higher filter Q , which means higher circulating currents in the filter, which means greater loss for a given set of components.

Broadband receiver filters also increases the number and strength of undesired signals in the front end, which increases the chance of intermod, desense, etc.

I think the reason that most rigs cover only a part of a band is the VFO/VXO. A VXO can only be pulled so far, a VFO with a wide tuning range is is very touchy to tune, even if it is temperature stable.

Dana KK6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "William R. Colbert (also af852@rgfn.epcc.edu)" <V31XE@dzn.com>
Subject: [1732] bt
Message-ID: <32611ADE.4C51@dzn.com>

Glenn, AE0Q and Ron, KU7Y are correct, at least according to the references I have and what was used on the Government/commercial/MARS CW circuits I worked: BT (doubledash) is used as a separator between the preamble and text of a message and between the text and signature section of a message. It is also used as a separator in qso's (incorrectly used as a period- I do it too!) The correct dash symbol used as a hyphen or dash to separatge number groups is as Ron indicated: dah di di di di dah.

Interesting thread - especially since other punctuation characters are being incorrectly used in today's cw. At least the cw is being used.

72/73, Ray Colbert, W5XE,
(also af852@rgfn.epcc.edu)
SOWP 1064m
El Paso, Texas

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Stephen John Farthing <stephen@stevef.demon.co.uk>
Subject: [1756] bt and other procedures in the Morse Code
Message-ID: <mDrZJGAirWYyEw1S@stevef.demon.co.uk>

> according to the
> references I have and what was used on the Government/commercial/MARS
> CW circuits I worked: BT (doubledash) is used as a separator between
> the preamble and text of a message and between the text and signature
> section of a message. It is also used as a separator in qso's
> (incorrectly used as a period- I do it too!) The correct dash symbol
> used as a hyphen or dash to separate number groups is as Ron indicated:
> dah di di di di dah.
> Interesting thread - especially since other punctuation characters
> are being incorrectly used in today's cw. At least the cw is being
> used.

There has been quite a lot of discussion on Morse Code procedure of late. As a very new licensee I get a little confused about procedure. Is there a FAQ for beginners/improvers? I know the code and can send up to 12 WPM but I find some QSOs difficult to follow and the op on the other end of the contact must think I'm a real lid with some of the stuff I've sent, or not sent. It would be nice if there was a definitive set of documented procedures to follow so that those of us who have not used morse as part of our jobs could learn to use it correctly.

--

Stephen John Farthing MBCS G0XAR
Melksham, Wiltshire UK
RSGB G-QRP 7766

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: amarriot@direct.ca (Albert Daniel Marriott)
Subject: [1755] Century 22

Message-ID: <960ct13.152504-0700pdt.30462-1059+217@orb.direct.ca>

Hi gang,

Can anyone provide information about the Century 22? Operating habits; idiosyncracies of any sort; availability of accessories ?

Any information would be appreciated, thanks in advance.

Dan VE7CTN
amarriot@direct.ca

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "Denton Bramwell" <denton@cyber-west.com>
Subject: [1763] crystals
Message-ID: <01BBB93E.35012900@async1_routerb_layton.cyber-west.com>

I recently bought a fairly large lot of surplus electronics, and it included a bunch of 5.15 MHz crystals.... more than I can ever use. I'm willing to send a batch of 10 or so to the first couple of homebrewers that have a real use for them, and who will provide a 6x9 SASE.... haven't done any spur chart analysis, but I suppose there is at least one band where they would make a dandy IF filter.

Those who want 'em, speak up... first two requests get filled.

Denton
K70WJ

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: tony@wilkes.ak.planet.co.nz (Tony Wilkes)
Subject: [1863] Don't leave me now
Message-ID: <659@wilkes.ak.planet.co.nz>

My OHR 100 for 20M and my Autek RF-1 both arrived half hour ago - these were purchased after discussion on this group.

My plea is
"Don't leave me now and form another group (HB) you lot got me into this and I'm going to need help"

Tony Wilkes --- Whangaparaoa, on the North Island, New Zealand
Royal Forest & Bird Croquet
ZL3SLH & G3SLH > QRP-L #717 QRA >RF73JF

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: PaulKB8N@aol.com
Subject: [1876] Everyone went "ugly" early
Message-ID: <961014221200_543206204@emout03.mail.aol.com>

Gang,

Very quick response to the four "ugly" tuner kits. All sold, plus some additional kits were put together to satisfy others who wanted them. This list really performs a great service. I look forward to hearing the results of the projects. 72, Paul

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [1855] FAQ: questions on Ten Tec rigs
Message-ID: <n1366805658.27822@msmailgw1.arlut.utexas.edu>

A good resource for Ten Tec model experiences, value, opinions, fixes, help, etc. is the list found as tentec@akorn.net. A question posted there about any model usually finds several users of that rig. (That list is also read by the National Sales manager of Ten Tec, although an independent list.)

>From other threads over there on this model, it is still a good rig. There was either a model 21 or 22 for sale at Gulf Coast Ham Convention this weekend past, and I think it found a new home.

72, Stuart K5KVH
rohre@arlut.utexas.edu

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [1795] Finally, freq. counter for Classic
Message-ID: <32621af7.pandora@pandora.lugs.org.sg>

Hi Gang,

I finally did it That's right, after procrastinating for almost 2 years, I put a digital frequency readout into my OHR Classic. The story:-

About 2 years ago, I got really fascinated with frequency counters and in particular the one published in the ARRL Handbook. The only trouble was that the PCB layout provided was way too big for my liking so I took the trouble to re-lay the PCB to a much much more compact size, about 1/3 the original, plus I threw in a pre-amp for the counter as well. I made a couple of these and managed to get some really cute, small red cascaded 7-segment displays for them too. I was all set, I had 3 of these made.

I had originally intended to put one into my NN1G, whose board was only a little bigger than the counter board but I loaned that rig to someone who hasn't returned it yet. I also planned to slap one into the Classic. Me and another ham had planned originally to punch out a new face plate to allow for the display but somehow this got put off year after year.

This afternoon, after finally getting my newly procured synthesized signal generator (eat your hearts out guys!, I got this for US\$30 and it covers 1 to 130 MHz), I decided to re-align and fine tune the Classic. This was very easy to do when you have the right tools (including a newly procured 4-ch 150 MHz Tek 2445A which cost me US\$60 or so ... heh heh.. drool! and of course, not to forget the HP5315B frequency counter that counts up to 150 MHz and above for only a meager sum of about US\$15). Okay, okay... I'll stop bragging about the instruments...

Anyway, after tuning up the rig I suddenly had the urge to fix in the display. I looked in the junk box and found 2 small L-brackets and I used these to mount the counter board just above the oscillator board. There was quite a bit of space to spare. I then drilled a few holes and filed them into a square (nope, I don't have a nibbler although I could use one :-)) A few screw holes later I had the whole thing back together and fired up the rig.

Walah! The display came on showing the 4 least significant digits, ie. 014.5 for 14014.5 MHz. This is the way it is supposed to work so no problems. A little calibration of the counter against my benchtop counter later, the whole thing is working beautifully. Now the OHR has this neat little frequency display to the right of the tuning knob above the RIT. I really should take a photograph of this thing and maybe post it somewhere. Yeah, I think I will do that after I finish this e-mail.

Surprisingly, the frequency counter does not generate any observable QRM for the rig and I was very pleased with this since it meant that I didn't have to worry about extra shielding. The counter board, incidentally, has a ground plane on the other side of the PCB.

Soon after I closed up the rig and made a few QSO's with it, I began thinking to myself like so, "hmmm... I wonder how much trouble it would take to add computer control to the rig, and while I am at it, add a smart keyer...." Anyway, if I do that, which I may well do considering how much I dislike manual logging, I will be sure to let you guys know. So much for this little mod ...

Anyone interested in more details can e-mail me :-) Have fun and oh... my 2 centavos... keep HB here on QRP-L

72 de 9V1ZV Daniel

--

```
*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg                  |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
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From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Joe Gervais <vole@primenet.com>
Subject: [1825] FOX: Novice Fox Limit?
Message-ID: <199610141910.MAA20937@primenet.com>

Howdy All,

Pardon my dense cranium, but I need a bit of clarification on hunting Novice Foxes. Can you only work one Novice Fox per season *total* for points? Or can you work each individual Novice Fox once per season for points? I don't want to be clogging the band with my RF if it's working against both the Novice Fox and all the rest of you.

BTW, if you haven't checked into the NorCal QRP website lately, there's a great "sports page" headline that gets updated every hunt. Good stuff! :-) Boy, where's Howard Cossel (sp?) when you need him? Or being a parent, I keep picturing The Count from Sesame Street reading off the score.... "ONE! Little Fox. TWO! Little Foxes...."

Sorry, I'll go away now. Soldering station summary to follow very soon.

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Michael Connor" <mikec@primenet.com>
Subject: [1800] FOX: Tonight!
Message-ID: <199610141618.JAA29280@primenet.com>

Gang,

I'll be the elusive furry one for Monday, Oct 14th.

WHEN: OCT 15th 0200-0400Z
WHERE: 7.043 +/- QRM, QRN

FOX STATS:

QTH: Phoenix,AZ
RIG: OHR400 @ 4.9999998W
ANT: 40M dipole @ 30ft, strung north to south

EXCHANGE: RST/SPC/NAME/QRP-L NR or POWER OUT

Due to the possibility of increased activity in the western half of the country as a result of the "World Series", and depending on propagation, I may call "QRZ EAST ONLY" for a minute or two to give the weaker stations on the east side of the country the chance to work thru into Arizona. I'll work anyone I can hear. Call it a sort of " 7th inning stretch" if you will.:-)

Woke to rain and lightning here in Phoenix this morning. Could make for a noisy band. Hope it clears off by tonight.

Good luck to all, and may the propagation gods of your choice take a liking to you!

72,
Mike
NQ7K

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: N9DD@aol.com
Subject: [1820] FOX: Wednesday night Fox #6
Message-ID: <961014142357_1513723282@emout01.mail.aol.com>

QRP greetings to all...

Ahh... it's finally my turn. I will be the "FOX" this coming Wednesday night, October 16 (USA time). That's the morning of Thursday, Oct 17 UTC. Look for N9DD on 7.037 MHz or thereabouts from 0100 - 0300 UTC. If 7.037 is too crowded, I'll head up around 7.042 to find a clear spot.

That's: 9-11 pm EDT
8-10 pm CDT
7-9 pm MDT
6-8 pm PDT

If you don't live in any of those time zones, I'd love to work you! But you will have to figure out your own local time.

I'll be calling CQ QRP FOX or just CQ FOX. I'll try for a nice, comfortable speed but will be happy to slow down or speed up to whatever you call me at (not too fast, please :-)).

On that same night there will be a novice Fox. Barry WD4MSM, who is also in South Bend, Indiana, will be active around 7.112 but will start an hour later. I hope to work Barry also. Could this be the first Fox to Fox QSO? I'm not sure exactly where Barry lives, but it should be close enough that I'll be able to work him on ground wave.

See you Wednesday Night!

73,

Tom N9DD
South Bend, IN

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "Denton Bramwell" <denton@cyber-west.com>
Subject: [1762] FS: oscilloscope
Message-ID: <01BBB93E.51171A00@async1_routerb_layton.cyber-west.com>

Very nice two channel 50 MHz, delayed sweep portable scope, with probe, excellent condition, \$275 plus shipping.

Denton
K70WJ

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [1748] Geocities
Message-ID: <199610131935.UAA17633@mail.enterprise.net>

Sorry for the bandwidth, but it is a request for help in the interest of QRP!

I am working on the complete listing of members of G QRP for inclusion in my web page and as there are so many members, the info will take up more space I have on my own web site. However, I do have a free 1mb available at Geocities but so far have been completely unable to ftp any info successfully to the empty Homestead directory. If you may be able to help me sort out what I am doing wrong, please email me or can suggest another site where I can make this facility available. The spreadsheet in HTML format takes up a little over 1mb, but I can maybe trim it down a little. Thanks.

--

Frank G3YCC (G QRP 042)
QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: pmk@juno.com
Subject: [1753] Has anyone else built OHR-100 Yet ???
Message-ID: <19961013.210829.4831.3.PMK@juno.com>

I just got finished with a OHR-100 and am really Pleased with it. I needed a 15mtr rig and Dick said they had just got the kits together for there new line and it did 15. I have made a bunch of contacts with it and the first was a Spain call and got a good report on 21.040. I noticed it is also a real flame thrower. It sucked down my HWA-7-1 power supply and buried the 800 milliamp meter on it at full output. I usually run my rigs around 200mil's which gets me about 1 watt I am real happy with it so far but need to get with dick about seeing if I can tighten up the recieve filter. I can hear things 2kc away but the RS-DSP takes care of that for me.

I also have 2 of Dick's (OHR) other kits and they are FB as well without the DSP at all.

73 de Patrick KD4OBQ

AR

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [1768] HB Pierce Oscillator
Message-ID: <199610140243.CAA29490@chuck.dallas.sgi.com>

Working on a Crystal Controlled Pierce Oscillator.

For all those that have been there and done that.

1. Anyone use a 2N2222A?
2. Did you find a perfect combo to get a perfect sine wave output for the components?
3. I got rid of the chirp when keying the +12V with the typical 2N3906 circuit and I get good shaping.

Problem areas:

4. Sometimes and it seems to be a thermal problem when 2n2222 heats up the osc will jump up to third harmonic.
5. Fundamental is 1/2 sine and there is another freq component on the other half of each 1/2 cycle. May be overdriving the osc, thus leading me to believe the circuit is just a shade off.

I'm doing this at 10.116MHz.

This outta start up some HB discussion. Oh, this is on a PC board and not ugly construction (yet). Should have started out there probably.

dit dit

: Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com
: EMPS QS0s=1 STATES(w/c)=1/0 DX=0

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: PDouglas12@aol.com
Subject: [1749] HB separate? No!
Message-ID: <961013153600_209623989@emout07.mail.aol.com>

Brad and Guys,

Periodically, someone comes along on the list and suggests we split out one kind of message line or another. Last year the list acceded to the demand that Dayton be split out, as a result of which notices to the group about what was available at Dayton, Dayton operating activities and special stations, and other info that the whole group would have wanted to see was not available or worse, had to be posted to two lists. This year, listmeister Chuck has wisely decreed that Dayton info stays right here on the main list. This is the only way to prevent redundancy and loss of info, in my opinion, and was a necessary decision.

Now we have the suggestion that "homebrew" be split into another list. This was a good faith suggestion, but it would necessarily cut the heart out of QRP-L, requiring the same kind of redundant postings, or potential loss of info for some who aren't cross subscribed. It is just not a good way to do things. Brad, I have no doubt that your early mail went 90% in favor of the split, but that is obviously contrary to the open postings I have read over the last few days--overwhelmingly against the split.

This list covers both operating QRP and building QRP and occasionally social gatherings of the folks who do the operating and building. Most of us do all three activities, operating, building, and hamfesting at one time or another. And it isn't the cattlemen against the sheepherders.

Some voices of reason have noted that most of the problem would be obviated by the use of standardized descriptive headings. This fall, Chuck asked Fox postings to have "FOX:" as the first four characters in the subject line. It is being honored in the breach more than anything else, unfortunately. Fox people who haven't heeded this direction, please note! Again, to see if you are paying attention, put the exact word, "FOX:" (use caps, include the colon, and leave off the quotation marks, of course). The same thing can be done for postings relating to homebrew. Start your message with "HB:" This is not hard. Dayton people, start your subject line with, "Dayton:" OK?

Now, please, let's leave the list alone. It works, as evidenced by its enormous growth. All those people must like it or they would just send in their unsubscribe request.

As a famous rocket scientist likes to say, if it works, DFW it.

72,

Preston WJ2V

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Steve Miller <kg7pv@teleport.com>
Subject: [1729] HB seperate list
Message-ID: <1.5.4.32.19961013150517.0067b998@mail.teleport.com>

Please don't seperate the HB stuff from QRP-L. I see this as my daily QRP/radio/info newspaper. I don't fully read all of it but I do read all of the HB and mod stuff. Would hate to lose it.

Now that I have voted, be realistic. Even if the list were devided I just gotta believe that most, if not all qrp-l members would subscribe to the new HB list so nothing would really change. 73 all.

Steve Miller (CN-85) Norcal #308 QRP-L #109 ARCI # 9230
Norcal 40A es Oak Hills Spirit II es dipole

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "Dan Harriman" <KC5GXL@pnx.com>
Subject: [1731] hb vs qrp-l hb
Message-ID: <199610131547.LAA85701@nss2.CC.Lehigh.EDU>

Am I missing something here, or do some of you get e-mail (to the list) that I don't get? Who started this thread, anyway? Did the list owner? Did some disgruntled user? All of a sudden, I get inundated by all this separatist media! I thought that QRP and homebrewing went together sort of like white on rice. If this is not the case, then maybe we had ought to stop talking about Norcal 40's 49'ers etc. Maybe we had also stop subscribing to QRPp and QRP Q, etc., etc., etc. If we stopped doing all of that, what would be left? I subscribe to jun0, and I also subscribe to another ramp.Both have a subject line. Both have folders to put mail in.

I am sure that if a new subscriber had

a question (or even a comment) about
HB and didn't know about the HB subject
heading, he would get some responses.
So what's the big deal?
73 de Dan aka kc5gx1 ARS # 25, ARCI,
FISTS # 1572, 1010# 67011

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Bradley S. Mitchell" <bmitchel@kodak.com>
Subject: [1836] HB:
Message-ID: <3262C454.57C0@kodak.com>

Has anybody come up with novel approaches to covering the
entire band with one transceiver, and with out re-tuning?

(TX & RX)

This seems to be a real problem with current rigs for
a single band. For instance, most cover 40KHz or so.

Some less, some more. I think that there are some
real possibillities here that we have not pursued!

Brad WB8YGG

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "JOHN F. McCLUN" <JFM001@DENTAL3.AB.UMD.EDU>
Subject: [1785] HB: Why duplicate efforts?
Message-ID: <17D097133@dental3.ab.umd.edu>

Gang-

Regarding the moving of homebrew questions to another list server
appears to be a duplication of effort! There is already a very good list
server at USCD - <Ham-Homebrew@USCD.edu> and is similar to this
one in that those on the list are the kit builders and designers with the
knowledge to answer your questions. Just as I would go here for a kit
question, antenna related qrp question, keyer question, etc. I would
go there for coil design, digital vfo or circuit design questions. They
are very knowledgible! Many are on this list such as L.B. Cebik, Mike
Cz (sorry Mike, I won't attempt to spell something I don't know how)
and others.

Since most of us are kit builders, tinkerers and experimenters this list works very well for our purpose. Lets not complicate an already every expanding net problem by duplicating something that is already working very well. Lets's try and keep on with what has been working so well on this server and what most of us enjoy - the discussion of QRP related items. Sometimes that involves a homebrew type question but if you really want to design stuff look to USCD's server.

MTCW -

John <N3REY>
Always QRP!

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Greg Newberry <newberry@cyberhighway.net>
Subject: [1856] HB:Recv Specs (long)
Message-ID: <3262EAB0.4480@cyberhighway.net>

Hi Gang,

The following is a post of the rigs reviewed in the June 1996 QST. One of the problems in comparing rigs is that all of them have different bandwidth, etc. I have a program that I put together that allows you to compare any specs against a standard of 500hz or 2400 hz for comparisons.

All of the specs came from the June, 1996 QST. For Multiband rigs I only used the tested bands. (usually 20mtrs.) These figures allow a comparison as if all rigs used the same bandwidth.

Don't hold me responsible for any of this. But I hope it helps.

G-QRP Club GQ40

MDS (dbm) ? -127
Measurement Bandwidth (Hz) ? 570

Specify Dynamic Range Parameter:

- 1) Two-Tone Third-Order
- 2) Input Intercept Point

Two-Tone Dynamic Range (DB) ? 91

Measurement Bandwidth (Hz) ? 570

	500 Hz -----	2400 Hz -----
MDS	-127.569	-120.7566
10 DB S+N/N	.2805741	.6147069
Noise Figure	19.44125	19.44125
Two-Tone DR	91.37936	86.83776
Intercept	9.499999	9.499999

Gary Breed Transceiver (A&A Model Tested)

MDS (dbm) ? -120

Measurement Bandwidth (Hz) ? 542

Specify Dynamic Range Parameter:

1) Two-Tone Third-Order

2) Input Intercept Point

Two-Tone Dynamic Range (DB) ? 69

Measurement Bandwidth (Hz) ? 542

	500 Hz -----	2400 Hz -----
MDS	-120.3503	-113.5379
10 DB S+N/N	.6441472	1.411256
Noise Figure	26.66001	26.66001
Two-Tone DR	69.23353	64.69192
Intercept	-16.5	-16.5

Oak Hills Research OHR-400

Note: Multiband, only 20mtr tested and used.

MDS (dbm) ? -137

Measurement Bandwidth (Hz) ? 145

Specify Dynamic Range Parameter:

1) Two-Tone Third-Order

2) Input Intercept Point

Two-Tone Dynamic Range (DB) ? 89

Measurement Bandwidth (Hz) ? 145

	500 Hz -----	2400 Hz -----
MDS	-131.624	-124.8116

10 DB S+N/N	.1759143	.3854087
Noise Figure	15.38632	15.38632
Two-Tone DR	85.41599	80.87438
Intercept	-3.5	-3.5

S&S Eng. TAC-1 (576hz bandwidth)

MDS (dbm) ? -134
Measurement Bandwidth (Hz) ? 576

Specify Dynamic Range Parameter:

- 1) Two-Tone Third-Order
- 2) Input Intercept Point

Two-Tone Dynamic Range (DB) ? 79
Measurement Bandwidth (Hz) ? 576

	500 Hz	2400 Hz
	-----	-----
MDS	-134.6145	-127.8021
10 DB S+N/N	.1246735	.2731458
Noise Figure	12.39578	12.39578
Two-Tone DR	79.40968	74.86807
Intercept	-15.5	-15.5

S&S Eng. TAC-1 (186hz bandwidth)

MDS (dbm) ? -134
Measurement Bandwidth (Hz) ? 186

Specify Dynamic Range Parameter:

- 1) Two-Tone Third-Order
- 2) Input Intercept Point

Two-Tone Dynamic Range (DB) ? 79
Measurement Bandwidth (Hz) ? 186

	500 Hz	2400 Hz
	-----	-----
MDS	-129.7054	-122.893
10 DB S+N/N	.2193959	.4806725
Noise Figure	17.30487	17.30487
Two-Tone DR	76.13696	71.59534
Intercept	-15.5	-15.5

Small Wonder Labs GM-20

MDS (dbm) ? -127

Measurement Bandwidth (Hz) ? 961

Specify Dynamic Range Parameter:

1) Two-Tone Third-Order

2) Input Intercept Point

Two-Tone Dynamic Range (DB) ? 86

Measurement Bandwidth (Hz) ? 961

	500 Hz	2400 Hz
	-----	-----
MDS	-129.8375	-123.0251
10 DB S+N/N	.2160842	.4734169
Noise Figure	17.17277	17.17277
Two-Tone DR	87.89169	83.35008
Intercept	2	2

Wilderness Radio NorCal 40A (rev B)

MDS (dbm) ? -137

Measurement Bandwidth (Hz) ? 271

Specify Dynamic Range Parameter:

1) Two-Tone Third-Order

2) Input Intercept Point

Two-Tone Dynamic Range (DB) ? 89

Measurement Bandwidth (Hz) ? 271

	500 Hz	2400 Hz
	-----	-----
MDS	-134.34	-127.5276
10 DB S+N/N	.1286768	.2819168
Noise Figure	12.67031	12.67031
Two-Tone DR	87.22666	82.68505
Intercept	-3.5	-3.5

Wilderness Radio Sierra (Tested @ 20mtr)

MDS (dbm) ? -131

Measurement Bandwidth (Hz) ? 772

Specify Dynamic Range Parameter:

1) Two-Tone Third-Order

2) Input Intercept Point

Two-Tone Dynamic Range (DB) ? 88

Measurement Bandwidth (Hz) ? 772

	500 Hz	2400 Hz
	-----	-----
MDS	-132.8865	-126.0741
10 DB S+N/N	.1521165	.3332706
Noise Figure	14.12383	14.12383
Two-Tone DR	89.25765	84.71604
Intercept	.9999996	.9999996
	-----	-----

This is all math, so your results may vary.....

--

Greg Newberry - WB7DUO QRP-L #760
newberry@cyberhighway.net
newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Bradley S. Mitchell" <bmitchel@kodak.com>
Subject: [1829] HB:Rx design
Message-ID: <3262BE4F.1A2E@kodak.com>

If I wanted to design a simplified R2 receiver. What are
the best techniques for providing the 90 deg phase whift with
New technology?

Brad WB8YGG

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [1846] HB:Wideband rigs
Message-ID: <19961013.170040.8727.1.WB8YGG@juno.com>

I personally don't think that much consideration has
been given to broadband rigs because it hasn't been done.

Now I'm not going to get too wild here, but if all we do is let
and others design our rigs for us, then there is no reason to
question why 20 kHz isn't enough .. is there.

Paradyme shift they call it. (ugh!)

If for instance, I could make a vfo oscillate anywhere. So for example, say with current designs that 40 kHz is the max.. we could easily switch in and out other NPO caps. The linearity issue, drift, etc is covered. We used NPO. It's a 40kHz vfo no matter how you cut it, but the rig covers the band.

VF0 covered..

Rx front end.. same scenario. Even better yet use a varactor for TRF!

Tx peaking: Could switch in/out caps for different segments, or a varactor

for peaking at different segments of the band.
for instance you could have 3 pre programmed voltages programmed for a varactor and then you would have everything set.

So where's the beef? :-)

A switch isn't going to add that much to the cost..

A few caps, a varactor

?

73 Brad WB8YGG

P.S. lower Q is higher loss.. Higher Resistive component.

Quality factor how good is it? how little resistance did we make it with?

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: k5zty@hamgate2.w5-f6cnb.ampr.org

Subject: [1883] Heathkit Help

Message-ID: <19428@sugarland.ampr.org>

I need a schematic for a Heathkit model IG-70 audio generator. I called Heathkit Co. but they want \$30 for a manual by the time shipping and tax are added .

They would knock off \$4.00 for a schematic only deal. Guess they are trying to make up for some bad years.

Thanks for any help you can offer,

72,

Bill, K5ZTY

ARCI #8817 NORCAL #1321 CQC #178 MI #1472 NE #440 QRP-L #473

WITHOUT CW, IT'S JUST CB

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Roy Boggs <rboggs@pcc-uky.campus.mci.net>
Subject: [1845] How about BS: ?
Message-ID: <2.2.32.19961014211133.006ced30@pcc-uky.campus.mci.net>

I think the most used subject line of late would be one for BS: (anybody need help with this one?) since I notice that it gets deeper as all the Mr. Intelligencia types desperately try to come up with something worth posting. This happens with every club I ever belonged to in my life.

I think some who post here never get on the air. The quality of a message to this group should be analogous to your skills and manners as a good cw operator. Put another way, when I read a goofy posting here, I automatically presume that the guy/gal is also a poor op. My favorites are those that suggest something radical, which in itself is okay, then every Tom, Dick, and Harry has to hit the 'Return' button (copying the entire text) and shoot off some entirely insignificant two cents worth of rebuttal. DO YOU GUYS REALLY THINK THAT ONE THOUSAND THREE HUNDRED SUBSCRIBERS WORLDWIDE GIVES A FLYING HOOT WHAT YOU THINK? Why don't you email them direct instead of to the list? Sheesh!

Some of you guys remind me of a bunch of chickens; when one squawks, a hundred others have to chime in, and the total noise combined outwardly seems to bear some significance. Hardly. L.B. Cebik's or Paul Harden's technical contributions get lost in the chicken squawking! Okay.....sit there like a vulture waiting for someone to say something you disagree with....and just go right ahead and show your I.Q. The mark you just left is indelible with this group - trust me. Your R.Q (Respectability Quotient) just got flushed down the tubes. Get a life - get on the air- show some manners - be a good op on the air and on this list. Please.

de KE4KDT

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Hidehiko Komachi" <ja9mat@nsknet.or.jp>
Subject: [1822] How about the 49er's Modification?
Message-ID: <199610141857.DAA19050@po.nsknet.or.jp>

I'm assembling the 49er now.
This mighty 49er has the 7040KHz , X-Tal using for the QRP Frequency of US.
But in Japan this frequency is used for PHONE(SSB) !
So, I'll try to add the simple VFO or VXO to cover the CW band for our country.

Especially 7003KHz is our "On the air meeting spot" every Sunday morinig!
So, how do you think of this plan? And please let me know about the simple
VFO

or VXO for this mighty transceiver.

Waiting your advice.....

Best 72!

ps; I've worked with "HA5JI,Gyuri" in this morning.

This is the first Europe of 40m in this year.

My rig was Heath HW9 and Inverted Vee 8mH.

We often have a good condition for Eu's in the morining this autumun.

** From: Hidehiko KOMACHI as JA9MAT *****

Member of JA-QRP/#036 & G-QRP/#9128

Packet;JA9MAT@JA9IHI.28.JNET9.JPN.AS

E-Mail; ja9mat@nsknet.or.jp

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: n1pwu@juno.com (Robert K Berlyn)

Subject: [1851] HW-9 & WARC Bands

Message-ID: <19961014.163802.14526.1.N1PWU@juno.com>

Hi all,

I have a nice HW-9. I seem to remember that someone out there was selling
kits to put it on the WARC bands. I cant for the life of me remember
where I saw it posted.

I suppose I could design and build the band kits my self but just don't
have the time.

Does anyone know who to contact ?

Thanks

Bob Berlyn N1PWU

QRP-L # 161

NE-QRP # 226

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: mlynch@skynet.net (martin lynch)

Subject: [1879] HW-9 modifications

Message-ID: <199610150253.VAA22106@skye2.skyenet.net>

Gang,

I would like to know if there is a source for all of the modifications that have been done to the Heathkit HW-9 transceiver. Also I would be interested in hearing from anyone that has tried any of these mods. on their HW-9 rig.

72,

=====
Marty Lynch Amateur Radio Call: KA1LXG/9
Elkhart, Indiana
QRP-L #474 NorCal 1762
e-mail: mlynch@skyenet.net
=====

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [1807] Interesting propagation phenomenon
Message-ID: <Pine.3.89.9610141125.D5228-01000000@w3eax.umd.edu>

Way down upon the campus of the University of Maryland, College Park, MD...

There's a building called "South Campus Dining Hall," in which the UMARA is housed - 3rd floor, about 50' above the ground.

On top of the building, there's a 50' Rohn tower with a TH6DXX on it. This weekend, we FINALLY finished putting up the Maldol VK5JR 80/40/20/15/10m vertical antenna on a lower part of the roof.

The antennae run into a single IC-736 through a few hundred feet of RG-8. It's a waste but it's the best we can do.

Worked WB4LUE yesterday evening around sunset - QRP to QRP - MD to FL - with ease. You'd figure that the beam would work better, right???

One minute, he'd be S9 + 20 on the beam and only S5 on the vertical. A minute later, I'd switch antennas again and WOW! S7 on the beam and S9 on the vertical!!!

The polarization was changing as time went on!!! 11 years on the air and I never had the opportunity to check for something like that before!!!

We spoke for 30 minutes, had a great QSO. I'm still shaking my head at how neat that was to experience.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Paul Stroud <aa4xx@amsat.org>
Subject: [1720] KL 80M Roundtable
Message-ID: <3260ED4F.7E79@amsat.org>

Paul Stroud wrote:

Danny (K3TKS) and Fellow Knights,

Thanks for the FB postings concerning the KnightLites Net. Thanks to all of you, the KL net continues to provide an inviting place to meet fellow QRP'ers, as well as a place to try out new rigs and antennas.

Last Sunday's net saw participation from several stations acting as Net Controllers (VE3SP, K3TKS, AA4XX), in order to extend our hearing range over as wide an area as possible. Thanks, guys....

I know some of you are trying to check into the net but are not always being heard. Conditions will improve as cooler weather comes our way. Please keep trying - We value your participation in the Roundtable and will make every effort to pull you out of the soup. My 80M window is now back at its original height prior to Hurricane Fran's visit, so that should help improve the situation.

We had two notable DX check-ins this past session--WA50ES (Art in CO) and AC5GY (Dave in TX). Not bad for the bottom of the sunspot cycle! Both Art and Dave hold the distinction of being the only QRP'ers from their respective states to ever check-in to the Roundtable Net.

See y'all Sunday on 3710 KHz at 10PM EDT (0200Z). Newcomers are always welcome.

Here's a listing of last Sunday's check-ins: Stations preceded with an asterisk were copied by VE3SP or K3TKS--not by AA4XX.

WA50ES	Art	Longmont,	CO	339	5W	Dipole
WB8ZJL	Paul	Oakland Township,	MI	559		
VE3SP	Ron	Hamilton,	ON	559	5W	Vertical
K3TKS	Danny	Silver Spring,	MD	599	1W	Big Horiz Loop
N3G0	Gary	Raleigh,	NC	589	5W	Dipole
KF8EE	Ted	Loveland,	OH	449	5W	Argonaut II
*AD4ZE	Warren	Cary,	NC	219	5W	Dipole
N2TNN	Dean	Somerset,	NJ	449	2W	
*AA1BK	Steve	Raleigh,	NC	219	5W	Attic Dipole
AA6UL	Ralph	Charlottesville,	VA	449		Dipole
*WZ2T	Richard	Malone,	NY	219		
N8VAR	Ron	Huber Heights,	OH	449	5W	
WA4NID	Dave	Durham,	NC	459	5W	McCoy Dipole
*AE4IC	Bob	Greensboro,	NC			
*AC5GY	Dave		TX	229	5W	
AA4XX	Paul	Raleigh,	NC	(NCS)	5W	80M window @60'

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
 From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
 Subject: [1830] Lowdown on LOWFER's
 Message-ID: <v03007801ae883546c4f0@[132.235.72.11]>

Gang,

I got some nice responses from a few folks on the subject of who plans to operate this winter on the unlicensed band 160-190 khz.

I just am finishing my VLF converter (new for 1996) that was listed in the Longwave Homepage at:

<http://users.aol.com/part15/lfconvtr.html>

I opted for the diode ring mixer as used in the June 1977 QST article that this new article is loosely based on. I didn't have an SLB-3 mixer...and I couldn't wait for the mail delivery! Early tests show that it is performing great, I was copying the beacons on just the mixer stage alone! I changed my IF frequency to 14 mhz (Instead of 4 mhz) because that was the only crystal that I had that would make the frequency readout correct on my HF receiver.

It is like discovering shortwave listening all over again, I've never listened below 550 khz on my AM radio! I heard a few broadcast stations in Spanish and some other stuff, can't wait to try out the completed converter later this week. Then on to design a 1 watt transmitter for 160-190 khz!

Here are some of the responses that I received from the gang:

1. JohnHDavis@aol.com :

Is compiling a list of beacons and will e-mail me with the info by the 19th of October. I'll send a copy to the group...shouldn't be a very big file.

2. Jim Wilson-EJW012 <Jim_Wilson-EJW012@email.mot.com> wrote:

"If you don't already, you should subscribe to the 'Lowdown' -- a monthly publication by the Longwave Club of America. (LWCA, 45 Wildflower Rd., Levittown PA 19057 USA. It will keep you up-to-date with a list of who is on the air, who is hearing what, and will provide good theory and construction articles -- the Jan '96 (I believe) issue had a very good converter article which I built. Get all the back issues if you are serious about it.

An **excellent** source of info on antennas and converters (and lots more) is Ken Cornell's 'Scrapbooks' on 'Low and Medium Frequency', and on 'Active Antennas' -- write for prices to: Ken Cornell, 225 Baltimore Ave., Point Pleasant Beach, NJ 08742 USA)."

3. Bob Follett <bfollett@ditell.com> WA7FCU wrote:

"I belong to the Longwave Club of America, as do several other folk on this list -- including Nils!

They list all the active beacons in their monthly publication, the "Lowdown" Frequency, place, owner, etc.

They also occasionally publish designs for receiving antennas. Remotely tuned and preamped short antennas are the hot ticket for receiving these days.

For more information, try the LF Web page:

//users.aol.com/lwcanews/

There is also a Longwave BBS at 706 672 0360"

4. Jay WB6AAM, wrote:

"I won't be transmitting or doing much listening, but here's what I used to use:

Beacon "J" 187.5 Khz Los Angeles.

TX antenna..... 20 foot vertical TV push-up mast with tophat of four 15' radials.

Series loading coil 1.5 inch diameter, tuned with large 12" ferrite slug (nothing to brag about... use a big coil and litz wire). Lousy ground consisting of a few 15 and 20 radials laying on concrete, some attached to chainlink fence and water pipe. Better to use a bunch of 30 to 50 foot radials or else a large square of chicken wire plus longer radials.

Transmitter.... CD4060 CMOS osc/divider using computer grade 6 Mhz crystal. CD4060 output fed a buffer made of 2N2907A and 2N2222A. Square wave out of buffer fed an IRF511 (and at other times other IRF- series Hexfets. I liked to drive with a square wave for higher transmitter efficiency, the PI net RF filter and series antenna coil smoothed the squarewave back into a nice RF sinewave.

Transmitter output filter is a PI built from 630 V poly caps, C was about .018 or .019

and L wound on a T-100-3 Amidon core. Each C and the series L in the Pi are designed so that X=50 ohms, but could be designed for whatever the Z of your load turns out to be.

Keying... I used a simple one letter beacon keyer repeating "J" at about 5 WPM. Some memory keyers have a repeat beacon mode and I've heard LOWfers using these to repeat a 1-way message to another lowfer or several lowfers.

Beacon text could include ident, location, any other greetings or info."

Very 73 de

```
*****
*                                     Greg Weinfurtner AEE BSS *
* NN      N  SSSSSSS  8888888  0000000 Electronic Design Splst *
* N N      N  S        8      8  0      0 Ohio University   Athens *
* N  N      N  SSSSSSS  8888888  0      0 GO BOBCATS!          *
* N      N N          S  8      8  0      0                    *
* N      NN  SSSSSSS  8888888  0000000                    *
*                                     *
*                                     Can thou send forth lightnings *
* Amateur Radio                    that they may go and say unto *
```

* DXCC WAS EM89 QRP-L #297 thee, 'Here we are'? Job 38:35 *
* weinfurtner@ouvaxa.cats.ohiou.edu *
* <http://ouvaxa.cats.ohiou.edu/~weinfurtner> *

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: jim hale <kj5tf@mctc.com>
Subject: [1747] Mighty 49er
Message-ID: <32615FC5.4B85@mctc.com>

Today I did the output filter modification on my 49er rig, HAPPY DANCE!

The rig now produces 7.95 RMS volts - or 1.26 watts !

I have very strong shortwave QRM, whats the best fix for that?

Bob Kellogg AE4IC was my Elmer for the audio mod before this, I want to thank him here on QRP-L. He almost didn't get me through the filter mod, but he didn't give up.

Last week I was mobile with my 49er, & had another 5 QSO's. One was with VE3DA - only 98 more for my 49er DXCC! Hi :-)

This coming week, I'll be mobile with the Mighty 49er on thursday evening the 17th of October. Hope to be on 7.040-7.045MHz from 22:45 - 00:30Z. I'll be calling CQ de KJ5TF/QRP 72/3'z de Jim

AR QRP#2

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [1776] More Oscilloscope Questions
Message-ID: <Pine.OSF.3.95.961014001442.2495B-100000@duke.usask.ca>

I am looking for opinions regarding a Tektronix 561A. I am considering buying one and would like to get opinions from more experienced people than myself.

Thanks.

Brian.

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+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| "If I had only known, I would have been a locksmith." |
| -- Albert Einstein |
+-----+
```

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: nf0r@slacc.com
Subject: [1871] More St. Louis Vertical Stuff (long)
Message-ID: <9610142026.D1185Ap@slacc.com>

Here are some responses to questions about the twinlead coil in the
SLV.....and some other stuff!

Twinlead Coil:

Twinlead is used in the coil for several reasons. The material is
self-spacing. When butted together it produces an inexpensive
symmetrically spaced coil which radiates. It handles QRP power nicely
and is very durable after installation on the rod base.

Several textbooks note that when parallel conductors are shorted there
is some electrical advantage over a single wire, i.e. slightly increased
bandwidth. However, the SLV was designed as a center-fed multi-band
antenna for 10-40M, a "seven-bander". The tuner automatically takes care
of the bandwidth situation.

With this in mind the shorted twinlead coil in the SLV is used primarily
for mechanical reasons to add strength to the solder joint between the
wire and solder lug. The earliest version of the antenna used shorted
twinlead for the radiator as well as the coil. A "more is better" gear
was engaged at that time! The follow-up to the original article now
posted on the NorCal web page covers conversion to a single wire
radiator. This mod is simpler, cheaper and seems to perform well by
comparison.

For those experimenting with mono-band SLV's the shorted twinlead should
be a definite plus in the bandwidth department. Given the incredible

number of portable 40M QRP rigs now in use a design mod optimized for this ban will surely be well received.

The twinlead specified for the prototype places approximately 51' fo radiating conductor on the base of the collapsible pole. The vertical radiator adds another 16' for a grand total of 66'. Therefore the antenna offers a desirable half-wave on 40M, a full-wave on 20M and so on. It's almost as if the South Bend SD-20 and Black Widow poles were designed with portable QRP enthusiasts in mind. In any case, we'll take it! <grin>

I had no idea that the dimensions would work out so conviently until after the prototype was on the air. Initial testing disclosed two important facts! First, locating the SLV's resonant point with the tuner on the seven bands was a time consuming process. Second, bandwidth at resonance is rather generous including 40M. In my experience the existence of both of these conditions predicts very good news when it comes to center-fed antenna performance.

One reason the SLV works as advertised is full electrical length and plenty of it. And, the spaced coil radiates effectively along with the single wire radiator. Veteran "slinky" ops already know it is possible to work stations with just the coil. I have done this on 40M on two occasions though these exercises were not intentional! <grin>

The antenna works on 80M as designed but has not been touted for that band. A tuner will resonate the existing 66' of conductor which is, of course, a quarter-wave on 80M. I have worked a few stations there to satisfy my curiosity. This was during the summer and more so an experiment than a practical demonstration. Perhaps others will carry this project a little farther now that winter is approaching.

Optimizing the antenna for 80M might include a full half-wave of speaker wire or zip cord for the coil. The additional electrical length will be helpful. Complimentary radials are in order as well. How such enhancements will impact performance on higher frequencies reamins to be seen.

Radials:

There have been many questions about the radials as specified. Three radials seem to work just fine. A lot of early testing was done with only two. If "DX" is a primary interest then by all means add more radials!

The key word here is "logistics"! The SLV was designed first and foremost as a portable antenna. The questions then is how many radials does the portable op wish to install and then un-install at the operating site?

As originally specified an SLV can be on the air in less than four minutes without working up a sweat. Builder's choice applies here!

Radial alternatives for 80M? Even a "shortened" radial has a big footprint. Try "slinky" toys very close to their full extension. There are three retail sizes but the classic baseball-sized coil does a nice job on 80M. Adding at least one of these coils to the original radial system is helpful.

No radials? Sure, why not? A classic zepp feed works well or try a tuner coax feedline with floating shield. Note that the latter does not require a tuner for balanced line! Either option works okay for casual operations and cuts set-up/breakdown times to almost nothing. For a little portable QRP at work during the lunch hour or in the evening after dinner this is the way to go. The angle of radiation is probably awful but the op at the other end won't know the difference.

New mods reported:

From KF9XY: Relieve the wooden mounting post slightly on a lathe to position the rod's base several inches above the earth. This keeps sand and mud out of the screw cap threads. It also helps insure the feedline conductors remain well separated. Three screws spaced equidistant around the post will accomplish the same purpose.

From KA0JW0: Build several mounting posts to respond to conditions at different operating locations. A sharp, thin spike is better suited to hard ground. A longer, heavier spike such as a gutter spike is appropriate for soft earth or sand.

Coming attractions:

I'm working on an "SLV Vertical Beam" and an "Elevated Mount for the SLV". These are fall and winter projects for the OM unless someone beats me to it! <grin>

I hope you will find this follow-up helpful. Please keep your comments and mods coming.

73 de Dave, NF0R nf0r@slacc.com

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: AlexQRP@aol.com
Subject: [1831] My last 735 for sale
Message-ID: <961014154543_126496596@emout18.mail.aol.com>

Hi gang, wanted to post this radio for sale to the group before sending it in to all those "for sale" rags that are in abundance.

Nice clean working Icom 735 with 500hz cw filter and electronic keyer module. On a scale of 1 to 10 this radio is at a minimum a 9. Will sell for 650 and I will ship to the lower 48 states. Also includes power cord, hand mic and original box+manual. If interested I will add SM-6 desk mic for add'l 40 bucks.

My home tel here in Dallas is 972+243-3655. Thanks for the space Alex WA5UNY.

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Dan Reynolds" <bcdlr@midwest.net>
Subject: [1818] N/T Fox
Message-ID: <199610141823.NAA23423@cdale3.midwest.net>

Novice/Tech + Fox Tuesday, October 15, 1996, 8:00-10:00 PM CST

Dan Reynolds will have his first go round as N/T fox on Tuesday, October 15, 8:00 PM CST to 10:00 PM CST. If my math is correct this is 1:00-3:00, October 16 UTC. I will be on 7.112 +/- QTH is Decatur, IL, just about smack dab in the middle of the state. It's been a couple of weeks since I've operated, so I'll be a little slow and nervous and first, but should be able to get up to 10 WPM without much trouble. QRP-L #293

Dan Reynolds - Technology Coordinator
Lutheran School Association of Decatur, IL
ham radio: KB9JLO packet: KB9JLO@N9KGZ.#CIL.IL.USA.NOAM
web: <http://www.midwest.net/orgs/lsa/>
email: bcdlr@midwest.net or lsa@midwest.net

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: ERSchley@aol.com
Subject: [1880] Need a source
Message-ID: <961014225231_1744858849@emout12.mail.aol.com>

Hey fellas and gals;

Anybody out there in QRP-Land have a source for pure silver wire? How about pure gold wire (in VERY small quantities, obviously)?

Thanks, Emory N4NCU

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: kt3a@juno.com (Cameron CR Bailey)

Subject: [1766] Newsletter Editor List?

Message-ID: <19961013.215557.8879.4.kt3a@juno.com>

Does anyone know if the Amateur Radio Newsletter Editor reflector is still around? It started up about 1994, but I never signed on. At the time I was not too involved with our newsletter. It's a different story now.

72,

Cameron CR Bailey, KT3A <><

ARCI Board member, QRP-L 7

QRP Society of Central Pennsylvania

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>

Subject: [1817] Noisy Classic

Message-ID: <326277e4.pandora@pandora.lugs.org.sg>

Hi Gang,

Okay, I have a question about the OHR Classic receiver performance. When I ordered this rig a long while back, I heard many positive reports about its performance, and indeed it is quite a good rig. However, I found that it is also a very noisy rig, compared to either the ARK-20 that I have, or even to the NN1G.

The noise appears to be coming from before the MC1350 stage. When I reduce the gain of the 1350, the noise goes down as well. The basic front end design looks very sound and the crystal filter checks out at 9.0000 MHz. The pre-amplifiers are all working. Essentially everything is working.

The noise is present on both the 20 and 40 meter bands.

I am wondering if other Classic owners have noticed the high level of noise? What could be a likely source of noise?

1. The switching diodes used are not shottky diodes, just regular diodes. Should I have them all changed to hot-carrier diodes? Will this reduce the noise level?
2. Will changing crystals for the filter improve the noise figure?

I'd appreciate if others with the OHR Classic could comment on this aspect of the receiver. The thing is when I hook up my ARK-20, the bands are crispy clear. On the Classic however it is very noisy and the internal noise

is comparable with the received noise floor. This is very bad for a receiver, and consequently weaker signals are not discernible.

Any ideas or suggestions as to where to look? Thanks.

73 de 9V1ZV Daniel

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*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg                  |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
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From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Barry Keating <Barry.P.Keating.1@nd.edu>
Subject: [1743] Novice FOX: Wednesday Night!
Message-ID: <v03007801ae86a50bbc65@[129.74.251.199]>

**** Novice Fox ** ** Novice Fox ****

I (WD4MSM) will be on the air this Wednesday evening (the local date will be October 16, 1996).

As Chuck requested, I will operate "near" 7.112 (please note that my analog dial is probably not as accurate as some of your rigs). I will be on the air from 9:00 pm - 11:00 pm local Chicago time:

Wednesday, October 16th (local date)
9:00 - 11:00 pm local (Chicago) time
0200 - 0400 UTC
frequency; "near" 7.112
My QTH is South Bend, Indiana (90 miles east of Chicago)
QRP-L# 642

Come SLOWLY -- I WILL get faster and more accurate in copying as the hunt progresses!

Don't let me down; I do not want to be the first Novice Fox to post a blank set of results next Thursday :-)

Barry Keating
WD4MSM

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: kd0su@kktv.com
Subject: [1726] NQ7X E-Mail address
Message-ID: <TCPSMTP.16.10.13.8.57.4.2240783031.2220513@kktv.com>

Floyd, I lost your address and have a couple of questions for you.
Would appreciate a response here.

73, Rick
KD0SU

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Dean Marzocca" <n2tnn@ifu.net>
Subject: [1861] oscilloscope book suggestion
Message-ID: <199610150001.UAA00674@mail.ifu.net>

Guys,

can anyone recommend a book or instructional manual to help explain oscilloscope operation. A book format which includes examples of how readings are taken would be much useful. Simple would be more useful than complicated. I will use it to explain the operation of the unit in a way that I cannot in ordinary language. I usually can't think of a concise way of explaining things and then it gets out of hand and confusion sets in.

Thanks again, 72/73, Dean, NJ, N2TNN, QRP-L # 560
EMPS Q=4 S=3 DX=1

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
Subject: [1775] PA Party and EMPS
Message-ID: <9609148453.AA845302911@smtpgw.ccgate.dl.nec.com>

Gang:

Nothing like a contest for testing one's antenna(s)
and equipment.

After spending the last 3 weeks trying to eek out Q's on 80m, I was able to bang out many contacts during the PA QSO Party. I was beginning to doubt the antenna's performance (100' l.w. with tuner and

GOOD ground system), but if those guys could hear my tiny signal, I'm sure others can as well.

Even snagged a VA3 who gave me a 579!

Lessons learned:

1. 80 is getting better with the longer nights. Noise has decreased here dramatically in the past week.
2. I've had good luck in the Novice/Tech+ area. I do hear a good amount of activity in the Gen/Adv/Extra segments, but hardly ever get an answer to a CQ. Mostly nets and skeds between friends going on, I suppose?
3. Don't give up on 80. I'm sure we can be a lot more active on this band. I'm hoping to have a lot of Q's this season on 80 and 40m.

73 de Dave AC5GY/QRP-L #25/Dallas, TX

AC5GY Tmps Qs=05 States=04 Confirmed=00 DX=01
MO MA FL PA VA3

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: u1002895@warwick.net
Subject: [1758] pa qso party
Message-ID: <32619E7C.6B12@warwick.net>

Hi all: just got done doing battle on the PA qso party running 5w qrp on cw and ssb using the ic-725 and longwire. what a blast. On 80 cw i just rolled up and down catching cq'ers and nailing 80 % of them, and on 160 (with a lot of tuner help) got a few more. By and large 40 wasn't too hot, but with lack of anywhere else to go , went to 80ssb and had a ball used the mfj949e to tune the LW and most op's had no problem copying and when i did indicate QRP were real nice giving sig reports etc. Had a great time and recommend joining contests like these for fun and increasing cw speed.

73 JIM KW3U

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: jdenison@aisp.net (JOEL DENISON)
Subject: [1761] Pa qso party
Message-ID: <19961014003606768.AAA96@slip1.ts-f-merrill.caps.maine.edu>

Fired up the qrp+ today and worked some of the pa qso party on ssb.
I got reports of up to s6 by most of the ssb contacts and good reports on
the audio. With 5w ssb or cw on all bands it is a neat little radio.

I do believe it is fox time again tonite. Being unable to hear the
last fox and just a barely hearing the first one I found myself writing a
poem to the absent fox.

(of course i'm going to include it for you!) :-)

The Absent Fox

As I sit
and gaze at the autumn sky
I get mysty
and thinks of hunts gone by

When QRP and I
were one
with hours of fox hunting
to be done

Where on golden keys
I would slay the fox
with dits and dahs
hurled into the sky

Where is the fox Lord
My log is bare
Where is the fox lord
his absence makes me cry

now don't that make youl want to cry
bye now
god bless
joel
WA5CVM

Joel Denison
81 High street
Farmington, Maine 04938
jdenison@aisp.net

Qrp ARCI #4066 NE-QRP #476 QRP-L #765
QRP PLUS 5w SSB & CW

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Jim Hunter <jhunter@sunrise.alpinet.net>
Subject: [1764] phone leaks
Message-ID: <Pine.SOL.3.91.961013193820.29273A-100000@sunrise.alpinet.net>

Thanks for info on catv leaks --- does anyone know what frequencies would be good for checking for telephone co. leaks --- on 20 meters I have a pulse that I believe is in sink with phone ringing --- not my phone.

I used a a.m. radio to isolate and I am almost sure it is the phone line.

Jim Hunter
wa7zxn

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: bmitchel@kodak.com (Brad Mitchell)
Subject: [1867] QRP Beacon
Message-ID: <9610150049.AA08572@howdy2.cba>

I tried posting before, not sure if I sent it right or not
I'm testing my beacon on
3564.50

80 meters
100 mw
I had no idea what freq to use.
I will run till 9:30 or maybe 10:00 EST tonight, and
maybe this weekend I'll run it while I'm here.
73 Brad WB8YGG

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Bradley S. Mitchell" <bmitchel@kodak.com>
Subject: [1784] QRP homebrew list
Message-ID: <32625588.6870@kodak.com>

Hi everybody,

I have been on the QRP-L for a long time, and have seen the list change considerably since it started.

Because it is becoming a list more of people building kits and Chasing foxes, I proposed that a new QRP-HB homebrew list be created.

Many people e-mailed me directly, and said, good idea..Many posting to the list directly said, No Way.

Now, my question is is there enough interest out out there to support a QRP-HB (Homebrew) list or not?

By some people on the list, I was told to come here and post (rec.radio.amateur.homebrew).

With the current thread that is going on here, it seems that Homebrewing in general is at risk.

What do you all think?

73

Brad Mitchell
WB8YGG

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "Floyd Soo, KF8AT" <hires@rust.net>
Subject: [1736] QRP-HB
Message-ID: <32613EE4.6F63@rust.net>

'I for one hope that there is NO split between QRP-L and homebrewers!
I also feel that they go hand in hand!

72,
Floyd, KF8AT
QRP-L #392

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Bradley S. Mitchell" <bmitchel@kodak.com>
Subject: [1828] QRP-HB
Message-ID: <3262BDCB.6193@kodak.com>

Ok people , I get the message.

I am surprised how a simple question can produce such inflammatory remarks.

I have no regrets. I thought Preston said it appropriately:

My question was in good faith.
Some of the responses were not.

On with life!

Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: rflight@VNET.IBM.COM
Subject: [1823] QRPP you can see for 49 cents
Message-ID: <199610141859.0AA34284@nss2.CC.Lehigh.EDU>

I think in weird ways gang;

I have been pondering my recent 50 mw hour long QSO between NC and PA, and how to describe its significance to those less familiar with the concept of how much energy it represents.

I found an excuse to stop into the local Radio Shack yesterday afternoon, and decided to check out their selection of replacement flashlight bulbs. I wasn't too surprised to find a number of 6 and 12 volt bulbs in the 150 to 200 ma class, but even my rusty old brain realized that at 4 to 8 ma (the current required to dissipate 50 mw) would simply convince a casual observer that I had a dead battery and therefore prove nothing.

I decided to linger in the "lightbulb" section for a few moments to savor momentary sabbatical from a growing stockpile of honey-do's, and stumbled upon a faded memory. Yes... a lightbulb went off in my head!!! Coincidence you say? Well... while scanning the vast assortment of incandescent memorabilia, I had a sudden flash of inspiration. What a dummy I thought. Hmmmm... I reflected a bit on an old 40 watt light bulb trick I used in those bygone years of wireless wonderment. I suddenly came aglow with curiosity, and began a search for the bulb that most closely represents 50 ohms when operating at its rated voltage, abandoning my quest for one that glows at 50 mw.

To shorten the story... I found a panel indicator replacement lamp with operating specs of 1.5 volts at 25 ma (aka 37.5 mw... close enough). I cut my honey-do hiatus a bit short, paid my half a buck, and headed for home. As I entered the house, my lovely wife of infinite patience was there to greet me with my next assignment, so I dutifully excused myself for a moment to drop off this next project in my shack.

As I approached the bench (excuse me your honor), I observed a "C" cell about to fall to the floor. I couldn't have spotted it otherwise. Immediately; I acknowledged this as an important omen which if left unattended, would surely burn itself out. Quickly, I ripped open the delicate panel indicator, with long

slim leads flowing gracefully from its perfectly contoured body, tastefully adorned with colorful insulation along the majority of their length; subtle hints of conductive skin exposed at their extremities. The mood was quick to engulf me, as I became intoxicated with subliminal refrains of "Come on baby light my fire".

In a passionate fury, I picked up the "C" cell, which felt cold and lifeless from its struggle to dissipate, while keeping everything it had to offer tightly bottled up inside. I knew this couldn't wait any longer... It was time. With tenderness and care, I separated the leads, placing them carefully across the ends of the "C" cell. I watched as the bulb acquired a warm but gentle glow....

Huh?.... Slap... Slap.... Hey wake up.... What's this? A dead battery? Nope! Battery checks good... The lamp lights, but it's dissipating only 37.5 milliwatts remember? Wow! A dummy load of roughly 60 ohms at 37.5 mw, and it can be seen. "Praise the Lord... I saw the light."

So for those who (like me) have an insatiable desire for an intuitive sense of this end of the power spectrum, check out this little lamp, and you can see just how little power it represents. Perhaps our KnightLites group should adopt a "little sister" group, and call them the "PanelLites". As I ponder the subtleties of this observation, I begin to realize that I need more illumination in my shack to read what I copy than my transmitter can supply.

If you try this test... and you probably will :-), try to imagine just how it might appear from 300 miles. That's what Frank (K3DZ) was working with for more than an hour. I've said it before... the receiving end of such achievements are the ones truly worthy of the awards.

72 now while I catch some QRPpppppppppp

N3G0, Gary - Raleigh, NC

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [1773] Quick Antenna question
Message-ID: <Pine.OSF.3.95.961014000901.2495A-100000@duke.usask.ca>

I have a 5/8 wavelength antenna for 2m which is attached to the roof of my car and I wish to connect it to my HT with GR-58. Would anyone know off hand what the characteristic impedance of the antenna would be or better yet the optimal length of cable to use.

Thanks.

BTW I was listening on 145.550 tonight around 11:00 CST (5:00 Greenwich I think) and was able to pick up MIR on my HT with a rubber duck. I couldn't talk to them of course ;-)

```
+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| "If I had only known, I would have been a locksmith." |
| -- Albert Einstein |
+-----+
```

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [1816] Radial Reasonings
Message-ID: <3262798F.673D@ix.netcom.com>

J. Skalski wrote:

```
>
> I worked the station in Italy and one in France with 1.9 watts the other
> day and got 559.
> Up the number of radials!
>
> My experience has been that As you go from 4 to 8 radials there is a big
> improvement. The same is true when you go to 16.
> you will notice the difference in your signal reports.
> Then as you jump number to 32 then 64 then 100 the improvement will be
> less noticeable.
```

---SNIP---

I just attended a seminar given by Lew McCoy at the Southwestern ARRL conference nearby in Mesa, AZ.

One story he related to in his talk was about why almost all commercial radio stations use 120 radials for their verticals. He said an engineer (I don't recall his name) made some measurements of how the feedpoint impedance changed as radials were added to the base of the verticals. A slope in the measured impedance was seen to level off pretty flat after about 80 radials were attached. When asked why he ended up using 120 radials based on that data he replied: (Well, I had a lot of wire left over so I figured I might as well use it up!) :-)

There you have it. A purely scientific reason for why today's commercial radio antennas still use 120 radials! ;-)

72/73,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>

Subject: [1804] Results, AA3MD rig-a-thon

Message-ID: <Pine.3.89.9610141151.A5228-01000000@w3eax.umd.edu>

First of all, many thanks to AK0B for running the 250 mW beacon this weekend. It made for a great, relatively consistent weak signal that was perfect for rig comparisons.

KA3RTE and I showed up at AA3MD's house in DC at 1700z Saturday. After much kludging of power cords (we were short a power supply or two), we had, on an A-B-C antenna switch:

Craig's Kenwood TS-850S

Scott's TT OMNI V

Govind's TT OMNI VI

and the results...very subjective...three grown men, flipping a switch, A B C B A B A B C B C B C B A B C B A and on and on and on and on...

Sensitivity:

The rigs are close. The slight QSB of the beacon was perfect for this. The 850 lost the signal first, the OMNI V second, just a shade before the VI lost it.

Clarity:

The OMNI V and VI both hear weak signals very well, but the VI sounds clearer on the very weakest of them. The 850 sounded on a par with the OMNI V, although Craig and Govind may contend this (in either direction).

Not getting creamed by nearby, strong signals:

Ten-Tec's ads do not lie. Someone was nice enough to call CQ just a few kHz away at S9 + 40. Independent of the filtering used, the OMNI rigs were essentially unaffected while the 850 was basically clobbered.

More to follow...

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "Stephen H. Ponder" <n5wbishp@blkbox.COM>
Subject: [1709] Rotatable Dipole
Message-ID: <9610130010.aa16804@blkbox.COM>

I attended the Gulf Coast Ham Convention in Houston, TX, this weekend. Saw what was billed as a "rotatable dipole" made from two "hamstick" verticals and an ingenious center connector (the connector was similar to a mirror mount, but had mounts for both "hamsticks" AND a SO-239 attached. The cost for the entire assembly (excluding coax) was about \$5-10 less than the pieces bought separately.

Has anyone ever used such an arrangement? Would it work for 80 metres? The overall length, including adjustable whips, is not much more than 15-16 feet. Would this be the "ideal" attic antenna for a QRP'er?

Any advice which you could give would be GREATLY appreciated!

BTW -- Still have not received my September QRPP or my October QRP Quarterly ... hmmm ...

72 de Steve N5WBI

=====
N5WBI * Stephen H. Ponder * Houston, Texas * Grid EL29kn
ARRL * QRP-L # 720 * QRP-ARCI # 8229 * 10-X # 65011
n5wbishp@blkbox.com

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: cjsterl@ix.netcom.com (Craig J. Sterling)
Subject: [1837] Saturday's Big Receiver Test!
Message-ID: <199610142007.NAA11953@dfw-ix4.ix.netcom.com>

Greetings from the District of Corruption,

Thanks first to Stan in beautiful downtown St. Charles, MO for running his 250mw beacon for us. This beacon was Q5 ALL DAY! Stan was really QRO! Hi! A QRO TNX to my friends Scott, NF3I (he didn't even try to sell me anything!) and Govind, KA3RTE ... who by the way holds a license in his native VU and will be QRV from there in the near future .. stay tuned! Anyway, condx were FB, I was even copied sending CQ QRPp on 40M in NM at 250mw.

THE TEST: Copy AK0B/B on OMNI VI, OMNI V and KNWD TS850.

THE WINNER: OMNI VI followed closely by the OMNI V followed closely by the TS850 (with my Timewave DSP 59+ the similarities were VERY CLOSE!) Anyone with the disposable income or lack of fiscal responsibility should seriously consider something like the Timewave...IMHO.

During the test we set all three rigs with only the 500hz filters in the 1st IF engaged, set the AGC to FAST...sometimes even off and let'er rip! I must say the differences were subtle...where the OMNI VI excelled was in deep QSB fades. It was the last rig to loose the signal followed by the OMNI V and TS850.

It just so happened that during the test an adjacent signal QRM'd the beacon ... The OMNI V won out followed closely by the OMNI VI, but by a thin hare. The TS850 got hammered, even when I switched in the 2nd 500hz filter in the 2nd IF. The Timewave helped tremendously as did the slope tuning and notch, but I must say TEN TEC's front end is somewhat more bulletproof.

Hey everybody, this was interesting stuff! I fully expected to see a night and day difference between the OMNIs and my TS850. In fact, if the difference were that dramatic I would have started saving my sheckles for the TEN TEC yesterday! I actually liked the ergonomics of the KNWD better and the appearance of the TEN TEC more so than the TS850, but that's another story. I'm not a contest guy or phone guy, consequently my opinions are somewhat skewed towards just plain old DXing and operating...OK!

2nd TEST: SCOUT VS ICOM 706. Winner: 706...WHY: Just had more stuff. Front-end overloaded like a champ. I live about 1 mile from several commercial radio and tv stations...rf central! The Scout actually did much better with respect to overload and heard EVERYTHING the 706 heard! Really!!! Love that variable bandwidth filter and solid main tuning knob. IMHO a solid radio with very sensitive receiver and excellent selectivity. If you want HF only and not 6 and 2 meters and don't care about operating from your flashlight battery, the Scout is a super little rig ... IMHO. We even compared my TAC1 in this group. Guess what? It heard everything the other rigs heard, even the TS850

and it costs \$200! My Norcal 40A heard everything also, but you had to work just a little harder. No fault of the 40A, I've had many enjoyable contacts and even some of them were DX ... from the deck at my QTH!

The radio that blows me away is my Explorer II (20M). It hears everything the TS850 hears and just as well! At \$100 that's scary!!!!

Anyway everybody, this was an exercise to evaluate "high-end" receivers. It was very subjective, I'm not an engineer ... or scientist! No contests, no stacked yagis, no expectations, other than my hoping to see a dramatic difference between the OMNIs and my TS850.

All in all, the differences in receivers were very subtle with the exception of adjacent channel interference, where the OMNI's clearly out performed the 850, but with the DSP it was only a marginal victory. Since I'm not a tester, the difference wasn't worth the \$\$\$\$\$, IMHO.

This was really a lot of fun. Our next test will be the benefits of flossing with dental floss or litz wire...stay tuned!

TU ALL,
Craig, AA3MD

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Richard Fisher <ki6sn@pe.net>
Subject: [1730] Sprint Reports: This just in. . .
Message-ID: <Pine.GS0.3.95.961013082141.13584B-100000@magnolia>

Here are two late reports for last Monday's October Spartan Sprint, hosted by the Adventure Radio Society. Many thanks for the ongoing support of this activity, and we'll look for you all in November.

Vy 72,

Richard Fisher, KI6SN
ARS No. 3

>From Bob, KI0G:

49'er is still in there but other stations or conditions were a little short for me. I have put my set-up on a diet since last time, less coax weight.

2 Q's at 0.65 lbs.

>From Dan, KC5GXL:

I didn't send in a log, but I did participate in the SP. I heard N2G0 and actually made a contact with N2TNN on 7.039 @ 0245 UTC. His rst was 449 here in Tx. He was running 2 watts. He sent me a rst of 355. I was running 10 watts into an Icom 730.

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "Bruce Pea" <pea@soltec.com>
Subject: [1740] St. Louis Tuner Kit
Message-ID: <199610131808.NAA01446@isis.soltec.net>

Hi Gang,

Does anyone know where I can get another St. Louis Tuner Kit?? Anybody have an unmade kit they want to part with??

Thanks

72,73
Bruce, N9WKE

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [1754] St. Louis Vertical ?
Message-ID: <1.5.4.16.19961013163504.0acfab8e@destin.nfds.net>

Hopefully, the pole will be here Tuesday and I can get it built for this weekend.

The question, after reading some of the dicussions, is;

Should I use the 300 ohm twin lead or 18-20 ga speaker wire?

I got the rest of it figured out, I was just curious about that part. Looking in the R/S catalog, it looks like the cost is about the same. But I am also concerned about durability.

I'll be demonstrating this to a number of Boy Scouts this weekend, as well as a number of our local hams, many of which haven't got the QRP bug yet...but I'm working on them...

72/73

--

Bill Myers KK4KF FISTS #2390 QRP-L #755 ARRL
Snail Mail P. O. Box 178
 Shalimar, FL 32579-0178
Grid EM60
e-mail <bmyers@destin.nfds.net>
homepage <http://destin.nfds.net/~bmyers/>

CHECK OUT THE FISTS HOMEPAGE <http://n9nvv.qrp.com/~fists>

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: John Dorson K2JHU Real Estate Consultant <jdorson@bbs.mpcs.com>
Subject: [1805] St;.Louis Vertical-Help...
Message-ID: <199610141639.MAA27428@bbs.mpcs.com>

I have been reading postings regarding this vertical with much interest. Can anyone send me any construction information. Seems like it may be a great ant. to take to the beach...
John Dorson Real Estate Consultant in Brevard County Florida
E-Mail To: jdorson@bbs.mpcs.com

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-----  
| Trying for WAS -        AL,AK,AZ,AR,CA,CO,CT,FL,GA,IL,IA,KS,KY,LA,ME,MD,MA|  
|                        MI,MN,MT,NH,NJ,NY,NC,ND,OH,OK,OR,PA,RI,TX,VT,VA,WA|  
|                        WI                                                    |  
|-----|
```

K2JHU only QRP... CQC #351, GQRP # 9092,

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "John Shuster" <jshuster@ix.netcom.com>
Subject: [1738] Still time for OHR Group Buy
Message-ID: <199610131649.JAA19952@dfw-ix9.ix.netcom.com>

Final Day OHR Group Buy Update:

We have over 40 kits headed out for QRP shacks across the country. When the weather outside is frightful, hams will be heating up their soldering irons and getting ready to transmit through the winter skies. Kit-building is poetry to my ears!

It's not too late to get in on the gravy. I'll send you the announcement again if you want to reconsider.

Speaking of soldering irons, I picked this up off the local packet board:

If I lived back in the Wild West days, instead of carrying a six-gun in my holster, I'd carry a soldering iron. That way, if some smart-alek cowboy said something like, "Hey, look. He's carrying a soldering iron", and started laughing, I could just say, "That's right, it's a soldering iron. The Soldering Iron of Justice." Then everyone would get real quiet and ashamed because they made fun of the Soldering Iron of Justice, and I could probably hit them up for a free drink.

That said, group buy ends tonight. Or maybe tomorrow morning.

John

```
+++++
John Shuster    jshuster@ix.netcom.com
QRP at the foot of the Olympics in little Port Orchard, WA
KC7CKP AE  ARCI 8951  QRP-L 554  ARS 36  NW QRP 346  WWDXC  ARRL
+++++
```

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Phil, AC6LS" <ac6ls@amsat.org>
Subject: [1777] Surplus Power supply schematic ?????
Message-ID: <3261F4E4.413B@amsat.org>

Looking for a schematic for the following power supply:

PP4763A/GRC

ac in 115/230 vac
23/11.5A
50-60 hz

dc out 27-29 vdc
50A

Thanks 73 de Phil

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Doug Hendricks <ki6ds@telis.org>
Subject: [1739] Texas Wins Fox World Series Game 4!
Message-ID: <32611C6E.3588@telis.org>

Bob White, W03B, was the Fox for game 4 of the Fox World Series.

Texas, trailing 3 - 0, was in a precarious position, as morale was not high in the Lone Star State, what with the Rangers getting nailed by the Yankees, the demise of the Cowboys, and worst of all, trailing in the Fox World Series 3 - 0. But, as happens so often, just as things seem to be going well, the wheels fall off.

Thursday night was no exception to that rule. California had it their way the first three nights of the Fox Hunt, but Bob White would prove to be a very difficult Fox to hunt, as he had lots of cover from the propagation gods. Bob worked 56 minutes into the contest before he worked a member of either team, and it was Arlen, K6VNX, who popped through the pileup with a 449 signal. Bob had worked 16 other Hounds before Arlen was able to make it. They were cheering wildly in California, and the 6 calls rang out through the land, KI6DS and N6WG, conferred on the phone, but they agreed that it was going to be tough, very tough tonight. Bob was doing a great job, but propagation was nil.

Oh well, California might just need the one contact to win, if the boys from Texas were being "skipped" over. Wishful thinking on California's part.

Arlen's contact held up until 0301, when Jack, W5TFB made the first of 5 Texas qsos. He was followed at 0310 by N5ET, Bob, and he was 559 in California!! Dick, AA2WJ, who was imported from 2 land for the contest, was Texas op number 3 at 0314. Things were looking bad for California, down 3 - 1, and only 16 minutes left. Bill, K5ZTY got his 339 signal in, and he might have been using that NA5N Regen Receiver that he built and brought to Dayton, because Bob only got a 229. Now the score was 4 - 1 Texas, with 6 minutes to go on the clock.

Suddenly we heard it in Los Angeles, San Diego, San Francisco, Dos Palos, Morro Bay, Fresno, Sacramento, all over the Golden State, it was the faint sound of: Fa, La, Fa La, Fa La La, yes, the big one, the Fat Lady, was starting to warm up, and then we heard one last call, and it was Tim, WA5VQY getting a 229 from Bob, and putting the final nail in the coffin of the California loss. It was over, and to add insult to defeat, guess what song the Fat Lady suddenly broke into? "The Eyes of Texas". As they say on ESPN, here is a final: Texas 5 - California 1. California leads the series, 3 - 1. Next "game" Monday night.

Congrats to the Pecos River Boys, you earned that one. Great job on a difficult night. Bob White, you have a great set of "ears" on

your radio. Special thanks to all who participated. Monday night ought to really be interesting, as the Fox is in Arizona, just about half way between Texas and California. I am predicting a really high scoring game. 72, Doug, KI6DS

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: blair thompson <blairt@planeteeer.com>
Subject: [1774] Thanks for the info.
Message-ID: <3261E2B0.91A@planeteeer.com>

You are really a great bunch of guys. The feedback on (A), the use of Outbackers for QRP, and (B) the information that the EMail address was Compuserve in origin is vastly appreciated.

Regards.

Blair Thompson VE7HHH

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Ahrens Tim" <tahrens@devmail.sps.mot.com>
Subject: [1821] The FOX battle continues... TX vs
Message-ID: <9609148453.AA845329104@devmail.sps.mot.com>

Note: There must be a fly in the ointment....
this message was first bounced from the list,
then I got a no message length error...hmmmmm

Doug, KI6DS had a great replay of the last fox's workout, although we triumphant Texans sing a little different song during our battles...

The fat lady did not sing 'the eyes of texas', (sung to the tune of 'I've been working on the railroad). The proper song that she sung was 'Texas Our Texas'.

I think that Chuck would heartily agree! hahaha

Thanks Doug that was great.. keep em coming!

Tim WA5VQK

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Ahrens Tim" <tahrens@devmail.sps.mot.com>
Subject: [1794] The World Series.....
Message-ID: <9609148453.AA845317385@devmail.sps.mot.com>

Wait just a minute...

Hold it, stop the presses!

The fat lady did not sing 'the eyes of texas',
(sung to the tune of 'I've been working on the
railroad). The proper song that she sung
was 'Texas Our Texas'.

I think that Chuck would heartily agree! hahaha

Thanks Doug.. keep em coming!

Tim WA5VQK aka WA5VQY

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: qrp-1@fido261.qis.net (qrp-1)
Subject: [1708] Things you do late at night
Message-ID: <f36_9610130120@fido261.qis.net>

* Copied (from: drake) by Thom LaCosta using timEd 1.10+.

Hello All!

Just finished a small project...it's a remote query database.
Some of you know of or have used HAMLIB...which is a listing of manuals
that other hams have available for photocopying when you need one.

I have a Fidonet application that allows you query that database....but
it's slow, because the gateway has to toss the query into the BBS...then the
BBS processes it...and sends a message to the gateway, which in turn
creates email to the person who requested the information.

In the spirit of cutting out the middle man, learning more about the

gateway, and having nothing better to do...I setup a gateway function to process the query as soon as it comes in...and like the listserv...it sends it right back out.

So....here's a new 'toy'
send email to:
hamfind@fablotz.min.net
the message body needs a single line:
find:keyword
the keyword is what you want to find...could be drake or modification
or k3hrn or (410)

The application scans the database, and sends you a report of whatever matches the keyword.

So, what else can be done? Whatever I can stick into a dbase file can be queried...and I'm open to other database 'themes'.

The next project will be an application that you can request that will allow you to enter all the manuals you have that you're willing to copy(the usual deal is that the requestor pays for the copy charges)...and send that file to me for inclusion in the master list.

If that works...we could do one one stuff you want or stuff you have for sale...kinda like a big QRP Classified in the sky.

Anyway...give it a shot, let me know what you think of it.

Thom LaCosta
k3hrn
thom@fablotz.min.net

--

|Fidonet: qrp-1 1:261/1352
|Internet: qrp-1@fido261.qis.net
|Standard disclaimer: Take a Naugha to Lunch today YOU pay the bill!

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: qrp-1@fido261.qis.net (qrp-1)
Subject: [1734] Things you do late at night
Message-ID: <f5b_9610131158@fido261.qis.net>

Greg Newberry wrote in a message to All:

GN> From: Greg Newberry <newberry@cyberhighway.net>

GN> Subject: Re: Things you do late at night

GN> qrp-1 wrote:

>

> * Copied (from: drake) by Thom LaCosta using timEd 1.10+.

>

> Hello All!

> Just finished a small project...it's a remote query database.

GN> What language's and OS's do you use for this? I've been an OS/2 nut

GN> for years but i'm going to try out Linux next month. I'm going to

GN> partition a 2gig drive and have OS/2, Linux, Win95, and a DOS/Win

GN> partition. Just wondering how you did it.

What I did was write some functions for my gateway program(GIGO) that output a simple dataline...the application is xbase...so you'd have to use a database that's flavored for your OS.

Basically, you suck in the dataline...do a search and output a text file that the gateway sends back to the sender...with the gateway, the response goes out as soon as the query comes in...so there's not a lot of lag time.

Thom LaCosta

K3HRN

thom@fido261.qis.net

Our Business is Business

--

|Fidonet: qrp-1 1:261/1352

|Internet: qrp-1@fido261.qis.net

|Standard disclaimer: Take a Naugha to Lunch today YOU pay the bill!

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: wdzeares@rockdal.aud.alcatel.com (W. Dennis Zeares)

Subject: [1798] this is the qrp HB list: sorry for typo

Message-ID: <9610141605.AA10150@aud.alcatel.com>

sorry about typo....

this is the qrp HB list... no more debate please.

sorry, 72, dennis k3ets

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: wdzeares@rockdal.aud.alcatel.com (W. Dennis Zeares)
Subject: [1778] THIS is the QRP NB list! End of debate
Message-ID: <9610141214.AA29565@aud.alcatel.com>

Hey, Y'all, THIS is the QRP HB list, Period, Over and Out!!
So STOP the debate and start posting QRP HB stuff!!
72/73 Dennis K3ETS, Dallas

The opinions are my own and don't bother to waste you time with flames!

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "duane" <duane@flinet.com>
Subject: [1771] to HB or not to HB that is the question
Message-ID: <199610140347.XAA21974@shell.flinet.com>

I feel the same way as Cameron, I'm an extra class and I too want to be able to design my own. So being new or old in the hobby makes no difference. I too learn alot from this group. I think this is one of the best places I've ever found to learn from those who know. there isn't anyone around my qth that does this sort of thing and I've been looking for a long time for an elmer. Don't try to fix that isn't broke should be something to remember. So to the powers to be leave well enough alone please.
Duane AB4BE qrp-1# 710

Duane AB4BE
<http://www.flinet.com/~duane>
duane@flinet.com
ab4be@amsat.org

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Greg Newberry <newberry@cyberhighway.net>
Subject: [1760] Too Much CW?
Message-ID: <32619A27.6FEB@cyberhighway.net>

Howdy,

I woke up yesterday morning to the sound of CW. While in a very sleepy haze I remember thinking that this must be about 4-5wpm. There was a 'T', a 'M', no another 'T'. This guy is slow. Not very good timing for dits and dahs. I couldn't really figure out where he was going.

This took all of about 3 seconds while I rolled over and looked out the window at the early morning hazy sky, realizing I was trying to copy a

dump truck that was backing up with it's reverse beeper on.....

Maybe I should go to phone or RTTY for awhile??

Greg

--

Greg Newberry - WB7DUO QRP-L #760
newberry@cyberhighway.net
newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: ukii@megsinet.net (ukii)
Subject: [1751] Tower Mounting conclusion...
Message-ID: <01BBB91C.A63785A0@dial116.megsinet.net>

Well,once again this list has provided me with invaluable guidance.
My initial question had to do with putting a Rohn 9ft top section
on my back porch roof.

After all the replies,I will be using a Rohn flat roof mount (35bucks
from friend??) . I will beef up both sides of the roof.Outside I will use
a 4 foot square piece of 1" plywood (what type?). Inside I will
use 2x6 boards across the rafters. I will use 1/2 or 3/4 inch threaded
rod,to make the "sandwich" and leave about 8 inches of the rod sticking
up,out through the roof. A friend told me to use these rods as the
leveling device,so I will put extra nuts on them,level the nuts in
all directions,then place the roof mount on top of them. This "should" be
level. If not,he suggests to simply raise or lower the offending nut (hi)
I guess thats it,all I do then is put nuts on top to secure the mount
and I am all set. Yes,he said to use BIG flat washes everywhere,but to also
use locking washers on the very top.

The legs will be positioned with 2 toward the west,thats the
direction most of the bad winds come from.

So,,,How does this sound to you all? Safe? I will NOT
be using guy wires,and what is going on the tower is about a 10 or 15
foot mast,my rotor,(ham-m inside the tower on plate), a butterfly
beam,maybe my 2meter small 4 ele beam,and toping it off is a
2/440 diamond 200 (about 6 foot light vertical)

One final question (the catch is here->>>) What can I use
for a mast? Do I need to go buy one of those expensive 100 dollar
jobbies,or is there something in the harware store I can use???

Thank you ALL for your help...

Best 73 de john
N9UKX

ps... Six pack of JOLT still waiting for first guy to work me on my 49er.
((maybe I am not operating it correctly,tuning wise?))

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Basil Arrick" <basil@mail.airmail.net>
Subject: [1865] Turning a \$25 40-9er into a "Superrig"
Message-ID: <m0vCuDU-000FC5C@mail.airmail.net>

Would it be worthwhile to build a stock 40-9er for \$25, bet it
working and play with it for a while, and then add such things as:

- 1) KC-[1|2] frequency counter/keyer (my preference would be the KC-2)
- 2) Increase front-end selectivity with input filters
- 3) 500hz or 250hz CW filter (the Wes Hayward, W7ZOI (?) design)
- 4) Another RF amp stage (switchable on/off) for 5 or 10 watts out
(no flames on this! :-))
- 5) Built-in antenna tuner

I'm not an Altoids fan, so my 40-9er will be built into a real metal
project box. Therefore, there would be room for this kind of stuff
inside the case.

I just thought that the 40-9er would be a good "basic" radio skeleton
to start with, and then this other stuff could be added one thing at
a time, resulting in a better radio (not that the 40-9er isn't great
to begin with; I've only heard positive comments).

I'm just wondering if I am blowing up a "supposed to be small and
simple and cheap" radio into some menagerie.

Opinions? Suggestions?

(Flames will be redirected to the author at least 10, and probably
100, times. :-))

Basil (Darin) Arrick, KB5KHR
basil@turn.com

Grid EM13ia

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Jim Dolson <dolsonj@ix.netcom.com>
Subject: [1779] Unbuilt Norcal Cascade Kit for Sale
Message-ID: <1.5.4.32.19961014120627.00905bbc@popd.ix.netcom.com>

My father has an unbuilt (and unopened) Norcal Cascade 80m/20m SSB transceiver kit for sale. I bought it for him as a father's day present last year but he simply is not going to have time to put it together.

He would like to get what he has into it (or rather, what *I* have into it) which I think was \$169. He will pick up shipping.

If anyone is interested, please reply via e-mail to:

Jim
WB8ZBD
dolsonj@ix.netcom.com
616-787-7078 days
616-874-8894 evenings

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Jim Dolson <dolsonj@ix.netcom.com>
Subject: [1793] Unbuilt Norcal Cascade Kit for Sale - SOLD
Message-ID: <1.5.4.32.19961014152622.00911a6c@popd.ix.netcom.com>

52 minutes after posting the "for sale" notice the rig was sold (to a qrp "personality" no less!). Boy I love this list.

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: wa5whn@juno.com (Jay D Miller)
Subject: [1713] VK2's S-9 into DM65qd @ 0952 UTC-13, Oct..
Message-ID: <19961013.041932.4551.0.wa5whn@juno.com>

Dear Fellow QRP Compadres,

I am listening to the low of 40 meters & VK2's are S-9. (0952 UTC).
They sound like locals.

72...Jay,

WA5WHN, Albuquerque, NM

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [1812] Wanted Mizuho 20m h/h
Message-ID: <199610141732.SAA16877@mail.enterprise.net>

Wanted Mizuho/Jim 20m handie with CW xtls.

72

--

Frank G3YCC (G QRP 042)

QRP Web Page:

<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Kelly Ellison" <kelman@dialnet.net>
Subject: [1868] Wanted: Back Issues of QRP Quarterly
Message-ID: <199610150058.TAA16696@shell.dialnet.net>

Howdy All,

I would like to start a collection of QRP Quarterly. I just got my hands
on
a couple of issues and would to find more back issues. I have some "QRPP"
Journals and
SPRAT Journals to trade or I would buy them outright. Email me direct for
more information.

Thank you,

Kelly Ellison - WB0WQS
kelman@dialnet.net

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: facmsa@facilities.buffalo.edu (Adams, Mark S.)

Subject: [1792] Weird Vertical Antenna Results?

Message-ID: <1996Oct14.112000.1483.23182@facilities.buffalo.edu>

Hi Gang,

This foxhunting blackhole that I am immersed within, and its attendant lack of fox QSO's got me to thinking. Why not up the number of radials on my 40M vertical from 4 to about 16. This antenna is running about 2 S-units down from my delta loop on most signals and I am way behind in the hunting so I should at least DO SOMETHING.

Well, after standing at the base of my vertical with a few spools of wire cut to 34 feet, I got another brainstorm. Since the base of my antenna is 4 feet off the ground why not install the radials off the ground. Hmmm...

Hey, I only need to cut the lawn one more time so this isn't even inconvenient to try! What is that old saying, "bury your radials and you bury your signal too?"

So now I have a 32.5 foot vertical with 4 34' radials, each up 3 to 4 feet, fed with 140' of 1/2" CATV 75 ohm hardline. At the base of the antenna are twelve 18" coils of hardline to serve as line isolator.

Down to the shack to see how it looks. Time is 2020UTC. I turn on the Cubbie find a guy calling CQ on 7.026. Hey, he is S5 on the vertical and in the noise on the loop. Wait, his call is IK4? I give him a shout and we have a nice chat on the vertical. He gives me a 559. He is really impressed when I tell him I am running 4W to a vertical, and yes he is in Italy. SWR is less than 3:1 over the whole 40M band. I can live with that.

Next test is to compare as many signals as possible between the vertical and the loop. WOW, the vertical is stronger on receive on about 80% of the signals! On DX there is no contest. On 15M the SWR is <2:1 across the band. GREAT. Too bad there were no signals to hear.

Now for the weird part. On Sunday night I tried 80M on the vertical. Even called into the KnightLites Net. The SWR at 3.710 was about 3:1. How can it be this low? AE4IC heard me just fine. (Sorry I couldn't stick around guys.)

The QUESTION IS: Are my losses on 80M so bad that my SWR is deceptively low? Or is my SWR OK and my efficiency is super low? Signal levels on 80M seem good (no other comparison antenna though) and I could hear lots of stations answering the nets' QNI. Any Ideas? Is this normal?

I hope my newly reconfigured vertical will snag a FOX, and soon, before clinical depression sets in :-(

72, Mark N2VPK
Member of the Buffalo QRP Connection

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [1765] Wire Revisited
Message-ID: <199610140155.BAA29151@chuck.dallas.sgi.com>

Gang,

I messed up on the wire posting. I had the information
but in order to shorten the posting I cut a couple of
lines out that should have been in there.

So, let's try this again.

>From the 1996 ARRL HB

Copper Wire (Bare and Enamel-Coated)

AWG Size	Diam(Mils)	Turns/In for Enamel(Heavy)	Ft/lb	Ohms/1000'	Current Cap [Amps]	
					open	conduit
20	32.0	28.9	322.7	10.128	11	7.5
22	25.3	36.2	516.3	16.200		
24	20.1	45.0	817.7	25.670		

Teflon Coated, Stranded Wire (Belden UL Style No. in parenth.)

Turns/in

#22	7x30 strands	16.7(1180)	20.0(1213)	23.8(1371)
#24	7x32		22.7	27.8

Current capacity is measured with wire temp of 212F with max
ambient air temp of 13F (must of done this in a freezer :-)).
This was in the 1996 Handbook. In the 1989 Handbook (this is
why I keep the old ones) the ambient temp was shown to be
135 degrees F. Something changed. Speaking of changes probably

many of us remember the furor that arose when the ARRL when from the slick paper to the flat white. :-)

Paul's book shows current carrying capability of 1.2A for #20, 0.9A for #22, and 0.58A for #24. This for bare or enameled solid copper wire. No conditions listed for environment.

If I take the ARRL values given down to (relative to physical diameter) #22, it looks like #22 can handle around 4A and #24 around 3A. I see guys in point to point wiring use wire that is really too large or they want to make sure there is no voltage drop or losses in point-to-point wiring.

Let's take #24. $25.6 \text{ ohms}/1000' = 0.025 \text{ ohms per foot}$. Let's say your rig draws 2A on transmit (24W in at 12V). If you had 5' of wiring from battery to rig that would be 0.125 ohms total or 0.25V drop. Not much in the big picture. IMHO. Besides we all know that the traces on the PC board are there for the protection of the wire anyway. :-)

Now LB brought up the fact that due to the amount of wire and the price that many of us will be using the stuff for long wires and portable antennas and other good stuff.

A long time ago in a galaxy far away I did some FEA of a pipeline suspended from buoys going from shore to offshore facilities to unload tankers. Calculating forces and all that stuff.

Using the same code for a long wire of 100' suspended between two supports at the same height here is what I get for the forces involved.

100' wire #22 0.19 lbs total weight

SPAN	SAG	Tension at each end point
------	-----	---------------------------

99.00'	6.08'	0.79 lbs
99.50'	4.28'	1.12 lbs
99.60'	3.82'	1.24
99.70'	3.30'	1.45
99.80'	2.67'	1.78
99.90	1.84'	2.59
99.91'	1.73'	2.75
99.92'	1.62'	2.93
99.94'	1.37'	3.47
99.96'	1.06'	4.48

99.98' 0.61' 7.76

As you see, the more sag you take out of the wire, the tension really increases rapidly towards approaching the length of the line between the supports. In fact at 100' the tension goes to infinity. This assumes 0.00% stretch factor. In real life, as LB so astutely pointed out, the wire will stretch when tension is applied.

You take the figures above and scale them according to weight density of the wire so that if you double the weight density the double the tension. You double the length of the wire the double the sag and double the tension for the same size wire.

So I propose the following experiment that I will perform but not any time soon this week due to many things that I'm trying to do before Pacificon. Everyone note the steps and see that I have scientifically come up with a sound or reasonably sound methodology.

1. Take several samples of the wire to be tested and be sure that are all of the same length and preferably from the same roll of wire. Say each length is 4 to 6' in length.
2. Mark off equal segments on the outside of the wire, say 6" lengths with a permanent marker and as precisely as possible.
3. Find a place away from pets, kids, where this experiment will not be disturbed.
4. Suspend the wires from a strong support.
5. On one wire place a one pound weight, another wire a two pound weight, another a three pound weight on the bottom end just by tying a loop around the weight. Very carefully allow the weight to gently start applying tension, i.e. don't drop the weight or let it go suddenly. To do so invalidates any measurements made on that particular wire.
6. Immediately record the date, time, and measure several of the marks to see if the wire and covering has stretched. Note wire size, manufacturer, any identifying features and any part numbers. Don't leave out anything 'cause when you do someone is gonna come along and ask you for it.

Also consider recording the temperature to see if that has an effect. Do tests several times to check reproducibility and see if length of line has an effect.

Continue to make measurements periodically (and here you have to see how fast things are changing but my first guess is 30 min intervals or longer) and record them until you determine that the stretching has ceased. This may take a few hours or in some cases maybe a day.

Make sure that the kids etc. don't add in additional factors. :-)

7. You may want to take one wire and do a destructive test. Continue to add weight until the wire breaks. Now do this carefully. Use safety glasses, stay away and keep feet away from where the weights may land. The vertical wire segment may start a rapid upward violent movement. Don't do this if you don't have a way to avoid accidents. If in doubt, leave it out. I'll do it.

Report back to the group.

If you have a kid that is looking for a science project this would make an interesting one. Have them do it for copper, aluminum, and steel or copper weld. Set up a long wire with supports (use pulleys on the ends with weights to vary the tension) on the ends and measure the sag vs. tension. Have them do it for 25' and scale the above numbers. I found some real cheap pulleys (2/\$2.07) at HomeDepot that are in the sliding glass door section. Another helpful hint in book by Paul Harden and Chuck Adams.

Now as sure as I post this someone is going to point out that some manufacturers have this data somewhere but I certainly don't have it. I think it'd help a lot.

I know that my stranded copper-weld 80m long wire didn't seem to stretch over a period of 2 or more years with about 20 pounds of tension.

FYI

: Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com

: EMPS QS0s=1 STATES(w/c)=1/0 DX=0

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: ad928@freenet.durham.org (Vincent Ferme)

Subject: [1857] WTB: Joy of QRP.

Message-ID: <m0vCwfH-00064rC@freenet.durham.org>

I am interested in buying a copy of " The Joy of QRP", please contact me at the e-mail address in my sig file.

Thanks.
72,

Vince.

--

Vincent Ferme, C.Tech.- VE3VFN -Internet mail:ad928@freenet.durham.org
Postal address:92102-2900 Warden Av., Scarborough, ON, M1W-3Y8, CANADA

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "William C. Robbins" <billrobb@serv01.net-link.net>
Subject: [1866] WTB: QRP periodicals
Message-ID: <199610150021.UAA11310@serv01.net-link.net>

Does anyone have any QRP periodicals they would like to sell? I am new to the group and to QRP and would like to sample whats out there and also do some reading. I have a couple of the books.

Thanks

Bill
qrp-1 412
William C. Robbins, WA8CDU ***Heathkit Collector***
billrobb@serv01.net-link.net

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [1783] Re: #22 and #24 Wire Stranded
Message-ID: <Pine.SOL.3.94.961014065702.10555E-100000@utkux4.utcc.utk.edu>

On Sun, 13 Oct 1996, chuck adams wrote:

> When you are thinking about wire, and in particular
> Jim's offer these are some figures from Paul's book
> and the ARRL Handbook

>
> AWG # Diam(in) Feet/lb Ohms/1000ft Carrying Current
>
> 22 0.025 516 16 0.9A

> 24 0.020 818 26 0.58A
> #22 is usually seven strands #30 solid
> #24 is usually seven strands #32 solid
> #30 solid is rated at 0.14A
> #32 solid is rated at 0.09A
> #34 0.06A (60mA)
>
> : Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com
> : EMPS QS0s=1 STATES(w/c)=1/0 DX=0
>

Applying this info to RF and temporary/portable/field antennas requires some adjustment, since these are (to the best of my knowledge) DC ratings.

Using #28 wire, I had not problems at 100 watts with a temporary indoor antenna. NEC-2 and other antenna modeling programs take material resistance into account as a load. A thin wire antenna shows less than 0.1 dB less gain than a thick wire antenna, with only a few ohms change in the feedpoint resistance between the two. Actually, a typical Yagi beam, with its joined segments of different diameter aluminum shows much more loss due to less-than-perfect conduction at these joints, and Lew McCoy has run some tests in which newly assembled beams actually heat up from the losses due to ohmic junctions (he used 1500 watts, but the percentage loss is the same for QRP levels).

The chief problems with thin wire for antennas are these: mechanical strength; narrower bandwidth for resonant dipoles; and basic current handling capability. If mechanics are not a problem and you use an ATU, then no QRPer should be hesitant to use thin wire wherever the situation seems to call for it.

Just an addition to give a lil perspective.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: kd1jv@juno.com (STEVEN WEBER)
Subject: [1870] RE: 2, 6 mtr AM phone
Message-ID: <19960912.193456.5471.10.KD1JV@juno.com>

Boy, do I miss 2 Mtr AM. One of my first HB projects that really worked was a three tube AM 2 Mtr transmitter and a converter using the new MPF 102 Jfets, (which replaced the modified TV tuner) way back in High

school. Some of my school ham buddies had CD Gonsets their dads had in the shack, and we would sit for hours on end chatting and fooling around and nobody cared! You'd call CQ for 20 minutes then tune from 145 to 145.5 looking for an answer. Now that was some fun. 2 mtr FM and repeaters ruined it all. <sigh, for the GOOD ol' days>

de KD1JV, Steve in NH. Once WN2HMT/ WB2HMT in N.NJ.

CQ 2 meters....(X100).... CQ 2 Meters, anyone out there?

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Basil Arrick" <basil@mail.airmail.net>
Subject: [1842] Re: 6 and 2m (boatanchor) AM frequencies
Message-ID: <m0vCu1e-000FFnC@mail.airmail.net>

> why am anyway?? i mean it seem's the only reason these guy's want to
> operate on am is because they still happen to have some equipment in
> their possession from long ago,, there certainly isn't any advantage
> to using am?,, i mean if these guy's didnt have any am rigs for 2m,,
> would they still want to get one and operate 2m am?

6 and 2 meter AM gear (tube-based, from the 50s and 60s) is cheap and easy to work on. I recently picked up an old 6 meter AM rig for \$25 (a Lafayette HA-460) that I'm trying to get to work. The place I bought it from has numerous 6 and 2 meter AM tube rigs, each under \$30 or so, as-is. Talk about getting into radio cheap.

Basil (Darin) Arrick, KB5KHR
basil@turn.com

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: KFGlynn@aol.com
Subject: [1810] Re: amateur practice exams
Message-ID: <961014132606_333477404@emout18.mail.aol.com>

Hi Gang,

Here's another site in case someone's interested. I believe it has Extra written elements as well:

<http://www.biochem.mcw.edu/Postdocs/Simon/radio/exam.html>

GL

73 Kevin KB2TE0

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: JCoote@aol.com
Subject: [1721] Re: Attic Antenna Progress
Message-ID: <961013092537_332588926@emout08.mail.aol.com>

In a message dated 96-10-12 00:37:59 EDT, kt3a@juno.com (Cameron CR Bailey) writes:

<< Fellow antenna fans,

I wanted to install a loop antenna for 40 meters, but the attic is just not large enough. My attic is 28 feet square. Anyone ever try a half wave loop? I considered a small loop. For 40 meters the conductor would have to be about 22 feet in circumference and a half inch in conductor diameter. It

would have about 50 pF series capacitance. Not in the mood to do plumbing, Maybe, I'll do one for portable use that can be mounted with a single vertical mount. Put that idea away for now.....

I tried a crazy idea of a quarter wave sloper. For the image side, I tried the galvanized vent duct for the furnace and hot water heater. This runs from the basement up through 2 floors and through the roof. Well, that did not work too well. The impedance was too high. I scraped that idea but kept the wire. I drilled a hole down into the wall and put a box and ran 450 ohm balanced window line. (I bought this short piece at a hamfest and it was never long enough for portable use....only 30 feet.) Putting the dipole near the peak of the roof and running 35 foot elements across and down, I ended up with a

dipole
shaped like a Z.....sort of.

Now, I will finally get to test that 4:1 balun in my St. Louis tuner.
Stomping over
my mess in the shack, I managed to find my NorCal forty. I initially set
up the
tuner with my Autek RF-1. No problem. Connect up the rig to the tuner,
good
signals and lots of QRN. Transmit and low SWR everything working like a
champ. Maybe I'll snag a fox this year. I was concerned that the
aluminum
roof vent that runs the peak of the roof may have an effect on my
transmitted
signal. I will just have to operate during the PA QSO party and see what
happens.

Now, where is this thing really resonant without the tuner? Tuning
around
with the RF-1 should reveal the answer. You're never gonna believe this
one.
It looks like my balanced 40 meter dipole is resonant at 10.125 Mhz!!!
What?!!
Goes to show, you got to play to get something to work. Now I'll be
ready for
TMPS too.

I ran another line to the outside. I am going to put up a 40 meter vee
in the
wooded vacant lot next to ours. Then I can compare indoor versus outdoor
antennas. Yea, while up in the attic, I put a 2 meter ground
plane.....just in
case a QRP net starts up in Central Pennsylvania.

72,
Cameron CR Bailey, KT3A <><
ARCI Board member, QRP-L 7
QRP Society of Central Pennsylvania
>>

You might try a 1/2 wave "open loop". (Retentives be quiet for a moment, I
know this antenna is not a true loop since it is open)
This antenna is basically a dipole, fed midpoint with 50-ohm coax. The loop
may be square or rectangular, fed at a corner or fed on a side. You might
try different feed locations while pruning for resonance and match.

Another attic antenna idea may be to put up this loop and feed it with
balance line and tuner, less hassles with pruning and more bands. The only

pruning you need to worry about is a antenna/feeder length which works with your tuner on all the bands.

You might feed a dipole with balanced line also. If the legs are way too short (ex: under 1/4 wave each on 40) then add wire zig-zags to the ends of the dipole. Keep it symmetrical, each leg should be a "mirror" of the other. The added length improves efficiency a little and may mean the difference between a match with your tuner or no match.

73, Jay
WB6AAM

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Dan Hogan <dhhogan@lightside.com>
Subject: [1745] Re: Attic Antenna Progress
Message-ID: <199610131920.MAA04266@covina.lightside.com>

Cameron,

Check out the article "A 30M THROUGH 80M LOOP" in the Ictober 73 Mag. issue. It's the QRP issue.

73

Dan Hogan WA6PBY QRP-L #558, CQC #340, NorCal #1806, ARRL
dhhogan@lightside.com Lat. 34d 03.5'N Lon. 117d 56.0'W
Grid: OM84wc

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [1750] Re: BEACON is running
Message-ID: <1.5.4.16.19961013143954.0cb7ab92@destin.nfds.net>

>Date: Sat, 12 Oct 1996 03:48:35 -0700 (PDT)
>From: Stanley Wilson <microres@crl.com>
>Subject: [1663] BEACON is running
>
>40 meter test beacon is running. QSK cutting first 'dit' but otherwise
>sounding good.
>
>Freq: 7021.150 hz plus or minus
>Power: 250 milliwatt output
>Location: St. Charles, MO. (20 miles NW of St Louis, MO)
>Speed: about 12 wpm
>Antenna: Vertical with large ground plane

>Call: AK0B/B

Stan,

Been listening to it off and on for the past couple of hours. I started listening around 1700Z and it's still in and out. Signals varied from 119 to 349. Interesting condition changes here in the middle of the day.

Thanks for the beacon, it answered few questions. Think I'll make a note of all the beacons and try to keep track of my observations, along with the weather conditions and "get back into" predicting the band again.

On another note, I'm off tomorrow night and don't have a meeting anywhere, so I can chase the fox, FINALLY. I didn't think I was ever going to get a chance. Even if I don't snag him, I'll at least be able to hunt.....

72/73

--

Bill Myers KK4KF FISTS #2390 QRP-L #755 ARRL

Snail Mail P. O. Box 178

Shalimar, FL 32579-0178

Grid EM60

e-mail <bmyers@destin.nfds.net>

homepage <http://destin.nfds.net/~bmyers/>

CHECK OUT THE FISTS HOMEPAGE <http://n9nvv.qrp.com/~fists>

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: adams@chuck.dallas.sgi.com (chuck adams)

Subject: [1843] Re: broadband (was Re: HB:)

Message-ID: <199610142102.VAA06432@chuck.dallas.sgi.com>

Dana,

Lower Q means higher R, thus higher losses. It is true that high Q results in higher circulating currents but due to reduced R the losses are lower.

In fact, with no R the Chebychev filter has no ripple or insertion loss below the cutoff point (neglecting the slope to the -3dB point for arguments sake and not worrying about the last delta-freq to the -3dB point). Add in the R value and ripple and insertion loss creeps (maybe rushes) in and resulting losses in heating internal components.

You are correct about the broad front end causing troubles also.

With the typical varactor tuned LO and the typical 40KHz or so band coverage NN1G and others have gotten the start-up drift under 100Hz or so. But I'll bet Dave NN1G, Wayne N6KR, and Dick KE8KL and others will be the first to tell you that stability and drift were the main considerations.

The Sierra used an air variable. They guys are going away from those like they were hot potatoes just due to cost and availability.

Not a put down on the air variable rigs, but even with a reduction drive I find that tuning is touchy and when you are trying to get in contact with someone running a 300Hz CW filter you can be in deep trouble from the get go. (TX talk for being in trouble from the very start. :-)

And as a side bar to this discussion. I find that on most rigs on 40m I really really don't wander very far away from 7.040MHz. I have the SWL-40 from 7.025 to 7.050MHz. I have the Explorer II from 7.000 to 7.070MHz and the GM-40 about 7.020 to 7.055MHz or so; have to go back and check. I'll run down below 7.025MHz sometimes to check for DX and to 7.022 or so for the Connecticut Wireless high speed CW practice sessions but that is not very much considering the time I spend listening and working foxes. :-) Sometimes and I'm not the only one. We all spend a lot of time listening.

In fact, now that I started thinking I went over to the log. Here is the frequency distribution on 40M and 30M since Jan 1, 1993 at 0.95W. This having a computer around is addictive.

40m 487 QSO's not counting SS

7.000-7.010	15
7.011-7.020	22
7.021-7.030	49
7.031-7.040	196
7.041-7.050	170
7.051-7.150	35

Most of those around 7.040 are from 7.035 to 7.045.

30m 348 QSO's

10.100-10.105	43
---------------	----

10.106-10.110 66
10.111-10.115 85
10.116-10.120 108
10.121-10.125 45
10.126-10.150 1

Now this data only reflects my personal distribution of where I spend my time. If one keeps a log and records the data, it would be interesting to see how others operate. I'll bet we all are creatures of habit.

It may be that QRP rig designers are spending a lot of time and money chasing the desires of a few if they pursue the wide frequency range. Heck, look at the number of guys (>700 or more) that have 40-9ers and can't move very far. I know, it's a bad data point. :-)

Again I write a book.

: Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com
: EMPS QS0s=1 STATES(w/c)=1/0 DX=0

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [1847] Re: broadband (was Re: HB:)
Message-ID: <Roam.3.0.845328429.27294.myers@bigboy>

> Dana,
>
> Lower Q means higher R, thus higher losses. It is true
> that high Q results in higher circulating currents but
> due to reduced R the losses are lower.

I think you're confusing the component Q (also known as the unloaded Q) with the filter Q (also referred to as the loaded Q). The insertion loss of a resonant circuit (a filter is a kind of resonant circuit) is:

$$IL = 20 \cdot \log_{10}(1 / (1 - Q_d/Q_u))$$

where Q_d = loaded Q and Q_u = unloaded Q.

A bandpass filter centered at 7.050MHz with a -3dB bandwidth of 75KHz has a loaded Q of 94. Noting that inductors are dominant with

respect to unloaded Q, we'll assume we've built this filter with inductors with an unloaded Q of 100 (typical for a toroid). The insertion loss is 2.44dB. Compare this to a broader filter - centered at 7.15MHz with a -3dB bandwidth of 400KHz. The loaded Q is 17.87, the insertion loss is 1.7dB. Making the filter even wider reduces the insertion loss even more - suppose we build a filter centered at 7.15MHz and 1MHz wide. The loaded Q is 7.15 and the insertion loss is .64dB .

Intuitively, note that the loaded Q value is due to the loading of the filter by the input and output loads, while the unloaded Q is due to the loading of the filter by component losses. Energy dissipated in component losses is lost, energy dissipated in the loads is being delivered to the loads and therefore is not lost.

> In fact, with no R the Chebychev filter has no ripple
> or insertion loss below the cutoff point (neglecting the
> slope to the -3dB point for arguments sake and not worrying
> about the last delta-freq to the -3dB point). Add in the
> R value and ripple and insertion loss creeps (maybe rushes)
> in and resulting losses in heating internal components.

This is true of any kind of filter - finite component Q increases the filter loss and distorts the passband shape.

Dana KK6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: emaaro@pacbell.net
Subject: [1737] Re: CW question
Message-ID: <326107FF.1243@pacbell.net>

emaaro@pacbell.net wrote:

>
> Steve Hideg wrote:
> >
> > Has anyone come up with a way to send a URL in morse code?
> >
> > How would I send "http://qrp.cc.nd.edu/qrp-1/"?
> >
> > I suppose I could leave off the "http://", but how would I send the
> > periods, with a di-dah-di-dah-di-dah? How about the dash in "qrp-1"?
> >
> > Thanks.

> >
> > --Steve
>
> Steve:
> It is easy to send a URL if you use seldom heard special characters:
>
> Dash - (DU) -.....-
> Dot . (AAA) .-.-.-
> Slash / (DN) -...-
> Colon : (OS) ---...
> Underline (IQ) ..--.-
> @ (A T) .- - (not W)
>
> People seldom learn/use these characters.
> 72s, emaaro

Steve, here are some more:

~ (TLD) -.-...-.. or send the word TILDE
< (VV) ...-....-
> (BB) -....-....

72s, 73s, emaaro

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Patrick Taber <ptaber@logiccraft.com>
Subject: [1789] Re: CW question
Message-ID: <1.5.4.32.19961014123502.00950a00@freebird>

>Hi, Steve. On CW dots or periods in numbers or addresses have
>traditionally be sent as an "R" .-.
>
Well, the 'R' (radix) is used in numbers, but in a number the 'R' is
unambiguous. In an address, it would be very confusing -- did he send
"car.ot", "ca.rot" or "carrot"? In text, the tradition is send periods.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [1715] Re: DATABOOKS FOR QRP
Message-ID: <Pine.SOL.3.94.961013061006.15412A-1000000@utkux4.utcc.utk.edu>

Do not forget that there are reasonably comprehensive lists of books and periodicals in the QRP-L archives. They contain publication data, pricing, and a very short description of the content. The location for the GET command in an e-mail message to LISTSERV@LEHIGH.EDU is QRP-L/BOOKS. The files are the following:

1. PERIODICALS.LIST: this file contains all known QRP periodicals, along with subscription addresses and prices and a brief description of typical content.
2. ELECTRONICS.LIST: this file contains books on QRP operating and circuitry, ranging from introductory texts to advanced references.
3. ANTENNA.LIST: since antenna books are too numerous to include with the electronics set, I put them in a separate file. Only W6SAI's new book is missing from the file at the moment, but will be added at the next update.

The same directory (QRP-L/BOOKS) also has an index to KI6SN's WorldRadio columns (WLDRADQRP.INDEX), a list of GQRP members on e-mail (GQRPMAIL.LIST), and an index to SPRAT, Vol. 1-85 (SPRAT.INDEX). NORCAL is another directory and has QRPP.INDEX (self-explanatory). NA5N technotes are in another directory. A myriad of other information is available. Do not forget to periodically send a message to LISTSERV@LEHIGH.EDU with the text INDEX QRP-L -ALL to update your list of available information on the wealth of information available--for free (or the cost of downloading and printing).

Posting information--and keeping it updated--is one of the quiet services provided by a host of dedicated members of this list. The best way of saying thanks is to retrieve and use the information--and if you find it useful, sending a direct message to the author--he or she will appreciate hearing from you--and perhaps even more hearing of additions you might suggest to the file in question. I am always on the lookout for additions and corrections to the periodicals and book list I maintain. (And periodical editors might look at their listing at least once a year to be sure it a. is correct and b. reflects the current flavor of the periodical.)

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [1826] Re: FOX: Novice Fox Limit?
Message-ID: <199610141915.TAA04998@chuck.dallas.sgi.com>

Joe,

Only one Novice fox per customer per season, unless you are a Novice/Tech.

The reason for this is very simple and obvious. You could win more points just by working only the Novices.

You can work all the Novices you want but only one counts.

A more detailed posting will be made at the time I post the schedule for the Novices.

dit dit

: Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com
: EMPS QS0s=1 STATES(w/c)=1/0 DX=0

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Joe Gervais <vole@primenet.com>
Subject: [1827] Re: FOX: Novice Fox Limit?
Message-ID: <199610141926.MAA22161@primenet.com>

Hi Chuck,

> Only one Novice fox per customer per season, unless you
> are a Novice/Tech.

Thanks for the clarification!

> The reason for this is very simple and obvious. You could
> win more points just by working only the Novices.
>
> You can work all the Novices you want but only one counts.

Sound reasoning. I figure I'll sit back and listen to the Novice Foxes, and if they get a lull and nobody's answering them, I'll send a few watts their way. That way I won't QRM somebody who needs a Novice Fox for points, and the Fox can get a point they may not otherwise have gotten.

Happy Hunting!

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: jdenison@aisp.net (JOEL DENISON)

Subject: [1796] RE HB

Message-ID: <19961014154248674.AAA197@slip32.ts-f-merrill.caps.maine.edu>

I have been on this list for a short period of time and while I've been here I have gotten information on many aspects of amateur radio and voiced a thought on change in one area.

My point being that the list is open to all to vent or state a problem with things as they are and what could be done about it.

The HB question was raised and an ideal answer was given with the HB as the subject listing. Consensus was reached and it speaks well of this list.

Too still want to seperate, after a good solution has been found means there must be some underlying, unsurfaced problem. The problem can not be HB as that was resolved.

so can someone do something really signifigent, like state the real problem here. This problem can be addressed and consensus reached and life goes on.

This is an excellent, well thought out listing. If ur question is anywhere near qrp, building, or operating the answer is here on this list.

If the answer is not here someone will be happy "to tell you where to go" :-) to find what you need. (couldn't resist the pun)

Now, just what is the problem? No, it is not HB, that has been resolved. unvoiced problems are unresolved problems and unresolved problems splinter an orginization.

If the list would not address a problem or come to consensus on a serious matter (whatever it is) then I would say "do your thing" and split. but this list has addressed all problems "voiced" and come to consensus on them.

It is time to voice the "real issue"
resolve it and move on.

Plesase voice the "real Problem" so it can be resolved.

bye now

god bless

joel

WA5CVM

Joel Denison

81 High street

Farmington, Maine 04938

jdenison@aisp.net

Qrp ARCI #4066 NE-QRP #476 QRP-L #765

Horiz. Loop up 30ft Inverted V up 33ft.

QRP PLUS 5w SSB & CW

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: herr@ridgecrest.ca.us (Michael Herr)
Subject: [1788] Re: HB Pierce Oscillator
Message-ID: <v01530504ae88f28e9891@[199.120.150.74]>

>Working on a Crystal Controlled Pierce Oscillator.

>

>For all those that have been there and done that.

>

>1. Anyone use a 2N2222A?

>2. Did you find a perfect combo to get a perfect
> sine wave output for the components?

>3. I got rid of the chirp when keying the
> +12V with the typical 2N3906 circuit and I
> get good shaping.

>

>Problem areas:

>

>4. Sometimes and it seems to be a thermal problem
> when 2n2222 heats up the osc will jump up to
> third harmonic.

>5. Fundamental is 1/2 sine and there is another
> freq component on the other half of each
> 1/2 cycle. May be overdriving the osc, thus
> leading me to believe the circuit is just a
> shade off.

Chuck,

I had a similar problem on #4 on a vfo for a DC receiver I am building. I was using a 2N2222 as a buffer, but was runing it quite hard. It would easily jump to the 2nd or sometimes third harmonic. The solution was to cut down on 2N2222, run it a little softer. I still ended up with ample power but if not I was prepared to add an additional stage of amplification. I've always found, more in a vfo than a xtal oscillator, trying to grab too much out of anyone stage is just asking for problems.

72

Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>

Subject: [1858] Re: HB Pierce Oscillator
Message-ID: <3262CA48.28C6@ix.netcom.com>

Michael Herr wrote:

>
> >Working on a Crystal Controlled Pierce Oscillator.
> >
> >For all those that have been there and done that.
> >
> >1. Anyone use a 2N2222A?
> >2. Did you find a perfect combo to get a perfect
> > sine wave output for the components?
> >3. I got rid of the chirp when keying the
> > +12V with the typical 2N3906 circuit and I
> > get good shaping.
> >
> >Problem areas:
> >
> >4. Sometimes and it seems to be a thermal problem
> > when 2n2222 heats up the osc will jump up to
> > third harmonic.
> >5. Fundamental is 1/2 sine and there is another
> > freq component on the other half of each
> > 1/2 cycle. May be overdriving the osc, thus
> > leading me to believe the circuit is just a
> > shade off.
>
> Chuck,
> I had a similar problem on #4 on a vfo for a DC receiver I am
> building. I was using a 2N2222 as a buffer, but was runing it quite hard.
> It would easily jump to the 2nd or sometimes third harmonic. The solution
> was to cut down on 2N2222, run it a little softer. I still ended up with
> ample power but if not I was prepared to add an additional stage of
> amplification. I've always found, more in a vfo than a xtal oscillator,
> trying to grab too much out of anyone stage is just asking for problems.
> 72
> Mike
WA6ARA-----

Guys, Guys,

Use a push-pull stage as a buffer and you won't have any even order harmonics. That makes the odd ones that much easier to filter out, and you can get the power out you want and still drive the 2N2222s easy. BTW, use a MPS2222a, it's better. :-)

Also, run the oscillator with as low a voltage as you can to minimize heating. An additional stage may or not be necessary depending on

the xtal activity and coupling.

72,73

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996

From: ka7you@juno.com

Subject: [1770] Re: HB separate? No!

Message-ID: <19961013.203639.7206.0.KA7YOU@juno.com>

Preston and the QRP group

I am a new subscriber, and I felt it necessary to comment on the proposed "split".

How does anyone really expect to split the building part, from the rest of the QRP activities? To me, they seem to be so intertwined that even to the op's that I know who are not interested in building, they read the building tips and articles for general information.

Thanks to Preston, who re-posted the correct procedure to head "HB:" and "FOX:" items. I wonder if there are any other procedural items that we who are new to the QRP-L list should be aware of. Maybe once a month the "PROCEEDURES:" file could be posted for us all. Then 98%, of the 95% who can remember what 10% decided to be the best procedure, can delete 100% of that file! :>)

In the mean time, I enjoy it all, but I sure get frustrated when I can't get my mail for several days and have to wade through all the reports of who caught/sighted/smelled or stepped on a pile of fox d---. Maybe the fox reports should be a seperate.....no I didn't really think that. Soon the foxes will die and "DAYTON:" will return.

Rod Johnson KA7YOU

Issaquah, Wa NWQRP#120

KEEP IT LIKE IT IS!!

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: adams@chuck.dallas.sgi.com (chuck adams)

Subject: [1838] Re: HB:

Message-ID: <199610142013.UAA05603@chuck.dallas.sgi.com>

Brad,

There is a tradeoff, well more than one.

1. Broadband usually means losses in several critical tuned circuits. Remember bandwidth is proportional to $1/Q$, so wide band means low Q .
2. Stability is another factor. We can build osc's that tune a wide range but they would probably drift like crazy. You've seen people go crazy over 300 to 500 Hz drift.
3. Wide range means (a lot of the time) non-linearity across the dial. I've seen people go crazy here when dial at one end was 3KHz off.

A lot could be done with no dial markings and digital display and there you go with a significant price increase.

Look at all the rigs that have digital displays. \$199 and up. Sierra was around \$189 or so for the 150KHz range, but some would say that fine tuning would be a nice addition and the KC-2 addition runs the price over \$200.

Digital VFO would give one a good start but at a substantial cost.

I think the issues have been pursued, just not posted as to the outcomes and tradeoffs that were made in the final production runs of the kits and non-kits.

Just my \$0.02 worth on the subject.

The race is on for under \$100 single band rigs. Just watch the postings and note the trend.

: -)

: Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com

: EMPS QS0s=1 STATES(w/c)=1/0 DX=0

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: torell@sicom.com (Kent Torell)

Subject: [1844] Re: HB: (Chuck's comments)

Message-ID: <v02130502ae8852f542c9@[192.91.202.41]>

Chuck had some good comments

>1. Broadband usually means losses in several critical

> tuned circuits. Remember bandwidth is proportional
> to $1/Q$, so wide band means low Q .

Now, a wire, of course, has very broad bandwidth, hence a very low Q . They must be inherently lossy ;-) (couldn't resist, chuck!) The important thing in a circuit realization is not the design Q , but the individual Q 's of the components. That is where the losses *usually* are.

Rest of post gets an OK rating. qrp-l...home of on-line (and very public) peer review... ;-)

Ground wave fox for me tonight 72, ab7oa

Kent Torell torell@sicom.com 602-483-2867 x40
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: kd1jv@juno.com (STEVEN WEBER)
Subject: [1862] Re: HB: DC to light Tx, Rx
Message-ID: <19960912.184348.5471.4.KD1JV@juno.com>

On Mon, 14 Oct 1996 15:53:08 -0700 "Bradley S. Mitchell"
<bmitchel@kodak.com> writes:

>Has anybody come up with novel approaches to covering the
>entire (HF) band with one transceiver, and with out re-tuning?
> (TX & RX)

Hi Brad,

Been working in that direction. Got two of the major building blocks done. One is the DDS VFO. It converts DC to 23 Mhz with continues tuning and 1 Hz resalution. Got it in kit form if your interested.

Second is a receiver that works from 1 Mhz to over 30 Mhz, depending on the input filter. If I repalce the SBL-1 mixer with a SBL-3, can go below 200 KHz.

(See the QRP Rx in June "72" or Oct QRP Qrty, 1996 issues) By the way got some improvements to the circuit. PC board will be avalible soon also, I'll post deatls later.

The third part will be the broad band amp. I'm looking for 160 to 15 mtrs

operation with 5 watts out. Problem is the amp has too much gain at 160 and too little at 15. Freq compenstion is a real pain. But got some ideas, just need some time to try them. (hint: 1500 mw MMIC's in push pull)

Finally, will need input/output filters that can be automaticly selected when tuning. This is not too hard to do, but will take a few parts. Had that feature built into the DDS VFO, in the form of a PWM output that coursey tracked the VFO's freq, but have taken it out in favor of other features for now. To use the PWM output, you had to intergate it then set up a bank of comparitors to trigger set points. Might put it back in when this project gets closer to reality.

So, it can be done, but costs some bucks. It's also something that can't be built into a tuna can! If I get the whole rig done, will have probably spent 500- 600 dollars developing it (and a zillion hours of work)! If you want high tech and good performance, better be willing to pay for it :-)

73, de KD1JV, Steve in NH

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [1787] Re: HB: Why duplicate efforts?
Message-ID: <v01540b00ae88002eb905@[157.142.56.166]>

> Regarding the moving of homebrew questions to another list server
>appears to be a duplication of effort! There is already a very good list
>server at USCD - <Ham-Homebrew@USCD.edu> and is similar to this
(snip)

>John <N3REY>
>Always QRP!

What is the subscription info for this list?

Thanks,
Mike N5JKY

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Dan Hogan <dhhogan@lightside.com>

Subject: [1814] Re: HB: Why duplicate efforts?
Message-ID: <199610141803.LAA04814@covina.lightside.com>

John,

Post the subscription information so we can get on with QRP-L.

Dan Hogan
West Covina, CA
dhhogan@lightside.com

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: okasb@rex.mtv.gtegsc.com (Bob Okas)
Subject: [1833] Re: HB:Rx design
Message-ID: <9610141948.AA18727@rex.mtv.gtegsc.com>

Brad and the Gang,

Rick Campbell's R2 design uses a classic image-reject mixer to cancel the unwanted sideband. To make this design work, a quadrature LO is required as well as a 90 degree phase shift on the Q mixer output. Campbell uses opamps and precision components to achieve this.

I happen to be doing this with a DSP, and although you can't get any better accuracy with other approaches, the power consumed by the chip easily eclipses the rest of the receiver. The neat thing about doing it in DSP is that it opens up a whole new world of filtering and demodulation options...

Bob - N3MBY/6

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Greg Newberry <newberry@cyberhighway.net>
Subject: [1854] Re: How about BS: ?
Message-ID: <3262DA93.6F3E@cyberhighway.net>

Roy Boggs wrote:

>

> I think the most used subject line of late would be one for BS: (anybody

> need help with this one?) since I notice that it gets deeper as all the Mr.
> Intelligencia types desperately try to come up with something worth posting.
> This happens with every club I ever belonged to in my life.
>
> I think some who post here never get on the air. The quality of a message to
> this group should be analogous to your skills and manners as a good cw
> operator. Put another way, when I read a goofy posting here, I automatically
> presume that the guy/gal is also a poor op. My favorites are those that
> suggest something radical, which in itself is okay, then every Tom, Dick,
> and Harry has to hit the 'Return' button (copying the entire text) and shoot
> off some entirely insignificant two cents worth of rebuttal. DO YOU GUYS
> REALLY THINK THAT ONE THOUSAND THREE HUNDRED SUBSCRIBERS WORLDWIDE GIVES A
> FLYING HOOT WHAT YOU THINK? Why don't you email them direct instead of to
> the list? Sheesh!
>
> Some of you guys remind me of a bunch of chickens; when one squawks, a
> hundred others have to chime in, and the total noise combined outwardly
> seems to bear some significance. Hardly. L.B. Cebik's or Paul Harden's
> technical contributions get lost in the chicken squawking! Okay.....sit
> there like a vulture waiting for someone to say something you disagree
> with....and just go right ahead and show your I.Q. The mark you just left is
> indelible with this group - trust me. Your R.Q (Respectability Quotient)
> just got flushed down the tubes. Get a life - get on the air- show some
> manners - be a good op on the air and on this list. Please.
>
> de KE4KDT
Roy,

Your intent is difficult to understand. If all we are suppose to add
this forum is well presented facts, then I assure you that I have enough
journals in my library to give me those. I believe that most of us here
enjoy not just the technical, but also the fellowship that come with
humor, and the bit of personality that is imparted with our posts. Do we
as a whole get carried away? Most assuredly! Some more than others, but
the personality of the QRP-L group as a whole is well balanced. Not too
dry, not too much personality.

I don't subscribe to this group just for the facts, having a hobby in
common with others and sharing it is rewarding. There are fact only
lists, they're called archives. Nothing live or humorous. I'm sure no
one here intends to offend anyone. And humor may well not be a gauge of
work ethics or abilities.

If this were a job, then respectabililty might be a serious issue. I for
one am glad it is not.

Thanks for sharing you views. That is what makes this a nice place to
be. It isn's a dichotomy, it's comfortable.

Just my thoughts..

Greg Newberry

--

Greg Newberry - WB7DUO QRP-L #760

newberry@cyberhighway.net

newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: Dan Hogan <dhhogan@lightside.com>

Subject: [1869] Re: How about BS: ?

Message-ID: <199610150122.SAA07949@covina.lightside.com>

KE4KDT,

Er...is your message the standard of which you wish the group to adhere?

Dan Hogan

West Covina, CA

dhhogan@lightside.com

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: n5zgt@swcp.com (Brian Mileschosky)

Subject: [1849] Re: Interesting propagation phenomenon

Message-ID: <199610142148.PAA17565@kitsune.swcp.com>

Something like this happened to me, too. I was operating during JOTA (Jamboree On The Air) a couple years ago and my Boy Scout Troop was chatting with another Troop in California with a 3 element beam pointed right at them. They faded completely out...until I tried messing with the antenna switch, and I switched to a vertical. 20 over 9 on the vertical, and nothing on the beam!

It might sound impossible, but that's what happened. Just more proof that RF works in mysterious ways...

By the way, don't forget about JOTA this weekend! I'll make an announcement with all the details in a few days.

72,

Brian, N5ZGT

>Worked WB4LUE yesterday evening around sunset - QRP to QRP - MD to FL -

>with ease. You'd figure that the beam would work better, right???

>

>One minute, he'd be S9 + 20 on the beam and only S5 on the vertical. A

>minute later, I'd switch antennas again and WOW! S7 on the beam and S9

>on the vertical!!!

>

>The polarization was changing as time went on!!! 11 years on the air and

>I never had the opportunity to check for something like that before!!!

>

>We spoke for 30 minutes, had a great QSO. I'm still shaking my head at

>how neat that was to experience.

>

Boy Scouts of America	Amateur Radio - N5ZGT
Eagle Scout - 1996	ARRL QRP: NorCal# 1700 QRP-L# 580
JASM - Troop 41	Author of Worldradio's "Youth Forum" Column
Albuquerque, N.M.	Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NA
O.A. Lodge 66 <-W-W-W-<<	Internet: n5zgt@swcp.com

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996

From: AE0Q / V31RY <v31ry@ix.netcom.com>

Subject: [1723] Re: KL 80M Roundtable

Message-ID: <2.2.16.19961013080222.29ef8640@popd.ix.netcom.com>

AA4XX wrote:

>

> We had two notable DX check-ins this past session--WA50ES

>(Art in CO) and AC5GY (Dave in TX). Not bad for the bottom of the

>sunspot cycle! Both Art and Dave hold the distinction of being the

>only QRP'ers from their respective states to ever check-in to the

>Roundtable Net.

>

Hi Paul.. Just thought I'd mention that the bottom of the cycle is the BEST time for 80m and 160m DXing, not the worst time!! That's not to say it wasn't darn good operating that made those checkins possible, but last winter and this winter is when the low bands are at their best..

Maybe I'll be able to check into the net in mid-winter.. I've tried, but my attic-dipole doesn't get out well enough to be heard out east at QRP levels yet.. Art moved this year, and has a nice outside antenna now.. He used to be a townhouse-dweller like me!

73 -- Glenn (Lakewood, CO)

Duct Tape is like the Force: It has a light side, and a dark side,
and it holds the Universe together.

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VVK
v31ry@ix.netcom.com -- ARRL LM, QCWA LM, NCVA --

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Paul Stroud <aa4xx@amsat.org>
Subject: [1797] Re: KL 80M Roundtable
Message-ID: <3262661B.63EA@amsat.org>

Richard Sherman wrote:

Hi Paul,

Thanks for trying to hear my sig tonight on the net. This is the first time I stayed around for the whole thing. Last week you had me checked in but I never heard my call come back so I didn't stick around. Anyway, the info in case you weren't able to copy QTH Duane, NY name Rick. And what I didn't send, rig KNWD @ 5W to 40M Vertical Loop. Maybe by next week I'll have an 80M antenna up.

As I was listening, I wasn't sure what the protocol was for the net. I got a general idea of it but I'm not sure of the details of how you run the net. Perhaps this might be a good refresher for the QRP-L group as well.

Thanks and BCNU,
72 de Rick WZ2T NNY

Rick,

Thanks for the note. I'm sure an 80M antenna would help, as your signal was RST 219 on this end. The main thing, though, is to do just what you did and check in with whatever antenna you have at your disposal. Then, when you get some spare time, you can put up an 80M flamethrower.

The Knightlites Net protocol has evolved over the last few months. During the first part of the net, stations are asked to check in. The Net Control Station will acknowledge each station and ask them to stand by until all stations are checked in. Each station is then asked to share a few brief comments with the group, stating rig, power level, antenna, etc. We also find out the names and locations of new stations. Stations wishing to check in may do so between any breaks in the

activity, as the NCS runs QSK mode. Periodically the NCS will send "QSP?" which is a request for any stations to relay the calls of any stations that are not being heard by the NCS.

Stations are welcome to come and go as they see fit. If a particular station misses his turn in the "comments" rotation, he will be called again later on. Some stations routinely check in and then leave immediately--that's OK, too.

The net runs pretty long some nights--sometimes 1-1/2 hours. It was suggested by one participant that we eliminate the comments section in order to process the maximum number of check-ins in the shortest possible timeframe. This was tried, but the net consensus was that this procedure took the heart out of the net. Our guiding philosophy is to "have fun, and provide an inviting place for fellow QRP'ers to come together and meet one another."

I hope this info helps. We look forward to hearing you and the rest of the gang next sunday on 3710 KHz at 0200Z (10 PM EDT). Spread the word!

72,

Paul AA4XX

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
Subject: [1881] Re: Need a source
Message-ID: <9610150311.AA28661@wizard.ucs.sfu.ca>

Hi Emory,

Try Welbourne Labs. They cater to the homebrew Audiophile set. I don't have their information handy, but if you can't find them, let me know.

cheers, Paul
ve7cqk
email: paul1@wizard.ucs.sfu.ca

>

> Hey fellas and gals;

> Anybody out there in QRP-Land have a source for pure silver wire? How
> about pure gold wire (in VERY small quantities, obviously)?

> Thanks, Emory N4NCU

>

>

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: n9zz@juno.com (Robert A. Schill)
Subject: [1735] Re: Need help & advice
Message-ID: <19961013.110812.5415.5.N9ZZ@juno.com>

Hi everybody,

I am relatively new to the QRP-L system but sure enjoy reading all the info that comes across the screen.

This is the first attempt to post something and hope I am doing it correctly. I have a need here, and perhaps some one will be able to help me.

I trust that the following will be OK to post to the QRP-L. If not, I would like to know that also.

We here in Arkansas have a QRP club going which has not been highly publicized, and now, in an effort to make it attractive to others around the country as well as the locals, we are trying to plan a small QRP contest. It makes sense to stay away from the dates when other contests are running so I am looking for a list of contests or a list of the QRP clubs that have contests periodically so I can contact them for the information that I need. I do have the list of net activities as shown in QQ, so that is covered.

The ARKANSAS QRP CLUB has no officers, no politics, no by laws, no fees, no money. But we do have fun, a net once a week on Mondays at 0030 UTC on 3.560 and a great group of guys. Naturally we want to expand and include more people, so, if the spirit moves you, contact me and I will gladly add you to the list, and who knows, one day we might publish a newsletter.

So, if you have access to the list requested or know where I can get it, please let me know.

Thanks and 72/73

Bob Schill N9ZZ
Mountain Home, Arkansas
ARCI QRP #4744, MI QRP #266, AR QRP #1, QRP-L #705, ARS #189
E-Mail address : N9ZZ@juno.com
Packet address: N9ZZ @ N0KFQ.#SWMO.MO.USA

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [1852] Re: Noisy Classic (LONG)
Message-ID: <3262B81E.7C16@ix.netcom.com>

W. Daniel, 9V1ZV wrote:

>
> Hi Gang,
>
> Okay, I have a question about the OHR Classic receiver performance. When
> I ordered this rig a long while back, I heard many positive reports about
> its performance, and indeed it is quite a good rig. However, I found that it
> is also a very noisy rig, compared to either the ARK-20 that I have, or even
> to the NN1G.
>
> The noise appears to be coming from before the MC1350 stage. When I
> reduce the gain of the 1350, the noise goes down as well. The basic front
> end design looks very sound and the crystal filter checks out at 9.0000 MHz.
> The pre-amplifiers are all working. Essentially everything is working.
>
> The noise is present on both the 20 and 40 meter bands.
>
> I am wondering if other Classic owners have noticed the high level of
> noise? What could be a likely source of noise?
>
> 1. The switching diodes used are not shottky diodes, just regular diodes.
> Should I have them all changed to hot-carrier diodes? Will this reduce
> the noise level?
>
> 2. Will changing crystals for the filter improve the noise figure?
>
> I'd appreciate if others with the OHR Classic could comment on this
> aspect of the receiver. The thing is when I hook up my ARK-20, the bands are
> crispy clear. On the Classic however it is very noisy and the internal noise
> is comparable with the received noise floor. This is very bad for a
> receiver, and consequently weaker signals are not discernible.
>
> Any ideas or suggestions as to where to look? Thanks.
>

Hi Daniel and the group!

I like schottky diodes for the diode ring DBM. They are a little less noisy,
and if well matched, help to reject unwanted mixer products. But they won't
make a huge difference in noise. An optimum LO injection is more likely
to affect the mixer's noise products. There is always an optimum injection
level.

I don't think the crystal filter is adding much in the way of noise here. They need to be closely matched, of course, so the desired signal is the only one that gets thru. Remove the signal input to the filter to see that this isn't the source. If the noise is before the filter, the noise will diminish. If the noise is created in the filter, removing the input and then the output coupling to the xtal filter will expose it. Tap lightly on the xtal can to see if the noise increases.

Try disabling the LO injection to the mixer. Does the majority of the noise go away? If so, the injection level might not be correct, either too low or too high. There may be a voltage spec. for this measurement. Note, all mixers create some noise.

This will tell you if the noise is early in the rig, before the IF stages or in the RF amp if there is one. You can also disable the RF amp by lifting a lead of one of the stage's coupling capacitors to see if the noise is originating in the RF stage, or prior to it. I have encountered noisy transistors (as have you) in some amplifier stages, so suspect any unknown or un-substituted device.

Another cause could be poor input stage bandpass rejection. A strong local broadcast station or SW station may be creating IMD products by slipping past the input stage filter. I haven't seen the schematic, so I don't know what kind of bandpass filter is being used. Make sure it is properly aligned, investigate any tuned circuits that don't seem to peak or resonate. Could be a sign of a bad component or mis-wound toroid inductor. Disable the AGC and re-align it.

I have never considered the MC1350 to be particularly noisy, although it does have high gain. I have several rigs that use it, and upon removing signal source into the '1350's input, practically all noise disappears, even at full gain. It has been my experience that mixers and spurious signals and bad components are more likely to be noise sources. Also, check to make sure that any Zener diodes are properly bypassed to prevent them from being noise sources. They are used just for that purpose in most RX noise bridges as the wideband noise source, and you DON'T want that in a receiver! :-)

The best way to isolate this "noisy" problem is just to interrupt the signal path at strategic points in the circuit path and listen for the results. Then narrow it down to the suspect areas. Don't overlook noisy bypass caps or improperly bypassed 3-terminal regulators, either. I have found some bad monolithic caps that were forced too hard into the PCB holes, and then they opened up or did so while the heat of the soldering iron loosened the leads from the monolithic material. These guys are quite fragile, and they invariably have lead spacings that don't match up with the PCB hole spacings! Watch out for them! :-)

Likewise, sometimes a carbon film resistor will loosen its lead endcaps when bending the leads to fit the PCB. These are hard to find until you press on the end of the resistor that is loose. A close look with a magnifier will sometimes

reveal a crack in the resistor body coating near the buldge of the lead attachment.

There can be a lot of "frying" noise from this type of intermittent connection. Bump some components in there with an insulated tool and see (listen) what happens.

One other cause of the noise, could be phase noise from a badly filtered VFO or LO oscillator. Without a spectrum analyzer this could be difficult to find, but if there are tuned circuits in the VFO and LO signal paths, these should be checked

for the correct alignment for the desired signal output, and no spurious products.

Sometimes varying the DC power voltage will show a change in rcvr performance and noise generation, so that may be worth a try. An AC voltmeter reading across the audio output stage will help give you a reference voltage to see the results of your troubleshooting. Make notes as you go thru the rig from AF to IF to RF stages. Don't forget about cold solder joints, too, but it surley isn't that, is it? ;-) Plated-thru holes are less subject to this. Use only 63Sn37Pb solder.

Hey, if nothing else, you'll certainly get a lot more familiar with the rig's design and parts locations! Besides, before you call the manufacturer for help, it will be very useful to gather some info so you can describe what you've tried and haven't tried, giving the manufacturer an idea of what is going on in there! Then you both can get right to the problem and not waste time on the more obvious things that could be wrong.

I just read a piece on this list about the improper routing of leads around the high gain areas of the PCB. I think it was by Dave Benson NN1G, as to the source of some T/R thumps his rigs and their variations. You might also check the wiring layout and any chassis mounting points for poor connection and grounding. Watch out for parasitic oscillations anywhere in the gain circuitry, particurllarly the audio amp and IF amp stages. The MC1350 IC is easily coaxed into self-oscillations by some IC sockets and poor PCB layout. Some people solder the MC1350 into place and forget about the socket altogether. I've had lots of problems with the old IC sockets Heath used. Gold-plated machine tooled types are the best.

One final thing: Many manufacturers think they have to crank the gain all the way up on the audio amp, be it an LM386 or LM380 or whatever. I have found this usually unnecessary on a properly aligned rig with a good antenna. A sure sign of this is an AF (volume) gain control that is loud, even with the knob turned nearly all the way down. What is the point of amplifying all those stray electrons that always exist in the receiver, when all you really want to hear is what's coming from the antenna? I usually turn down the audio gain by changing the gain resistor on my rigs, so the AF gain has a more useful range of motion. A 12 O'clock

or 1 O'clock position is more useful to me. Besides, some pots are noisy at the limits of their rotation, and full volume should be attained at full rotation of the AF control, not at 9-12 O'clock.

Good hunting! That's about all I can think of right now. Now, if it worked perfectly the first time, what would be the point of building? ;-)

Ain't this fun? :-)

72/73,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: Gary Surrency <gsurrenc@ix.netcom.com>

Subject: [1853] Re: Noisy Classic (LONG)

Message-ID: <3262BBF1.3D31@ix.netcom.com>

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Good hunting! That's about all I can think of right now. Now, if it worked perfectly the first time, what would be the point of building? ;-)

I see Bob, KI7MN has a Classic on his web page. Bob, is your's noisy?

Is this fun or what? :-)

72/73,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996

From: N9DD@aol.com

Subject: [1769] Re: Novice FOX: Wednesday Night!

Message-ID: <961013232650_333116936@emout04.mail.aol.com>

In a message dated 96-10-13 15:11:26 EDT, you write:

<< ** Novice Fox ** ** Novice Fox **

I (WD4MSM) will be on the air this Wednesday evening (the local date will be October 16, 1996). >>

Uh Oh Two Foxes from South Bend on Wednesday night. I will be the "regular" FOX on that night also. Barry, I wish you all the best, but if you beat me, I'll never live this down. Maybe I should put up an alternate antenna or two :-)

Full details to follow on my operation. I have a feeling that the Texas crowd will be scoring a big bunch of points Wednesday night. I usually do quite well into Texas, but only occasionally have QRP QSOs with CA stations. I would expect that Barry will have similar results.

73,

Tom N9DD
South Bend, IN

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: JCoote@aol.com
Subject: [1877] Re: phone leaks
Message-ID: <961014222605_1711303439@emout10.mail.aol.com>

In a message dated 96-10-13 21:42:42 EDT, jhunter@sunrise.alpinet.net (Jim Hunter) writes:

<<

Thanks for info on catv leaks --- does anyone know what frequencies would be good for checking for telephone co. leaks --- on 20 meters I have a pulse that I believe is in sink with phone ringing --- not my phone.

I used a a.m. radio to isolate and I am almost sure it is the phone line.

Jim Hunter
wa7zxn
>>

Jim,

Verrry interesting! The telephone lines near the subscriber end normally do

not use RF, therefore can't 'leak'. You will just find DC, audio and occasional 20 Hz ring voltage on a "standard" phone line. The exception is multiplexed trunks where a bunch of LF carriers containing voice channels are riding on the line.

You may be hearing RF junk from someone's poorly filtered cordless phone.

Most cordless phones use 46/49 Mhz. The new phones use digital or spread spectrum and channel-hopping in 900 Mhz (no relation to 800 Mhz cellular).

The older cordless phones used 1.7 Mhz for one side of the conversation and 46 or 49 Mhz for the other. Maybe the culprit is a harmonic from an old 1.7 Mhz cordless? In some cases, the signal from a cordless may ride along the phonelines.

Another possibility is an RF bug on a phone line, oh, excuse me this is ham radio.. I mean a milliwatt QRP transmitter <grin>. Some of these may use the phoneline as the antenna. The weaker (5-15 mW) devices may draw power from the phone line and are normally in series with one wire. The more powerful "bugs" (10-100 mW) require batteries, probably have their own antenna. Although rare, maybe you are hearing one of these emitting a spur on HF.

To check around for cordless freqs causing you interference, scan 46-47 Mhz or check the cordless channels in a scanner guide. Listen between 1.6 and 1.8 Mhz for RFI from old cordless phones. A telephone surveillance transmitter (bug) may be anywhere in the HF, VHF or UHF spectrum though most will be in between 30 and 500 Mhz. A scanner will have gaps in coverage (ex: 30-54, 140-175, 400-500 MHz) and a skilled 'bugger' may avoid these bands or nestle the bug carrier between broadcast or other carriers. Only toy or hobby bugs use 88-108 Mhz wideband FM and the bad guys avoid these.

RFI from a cordless phone or a bug from what you describe.

73, Jay
WB6AAM

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: rhight@primenet.com (Roger Hightower)
Subject: [1884] Re: phone leaks
Message-ID: <199610150319.UAA00242@primenet.com>

At 10:26 PM 10/14/96 -0400, JCoote@aol.com wrote:

>

>Another possibility is an RF bug on a phone line, oh, excuse me this is ham
>radio.. I mean a milliwatt QRP transmitter <grin>. Some of these may use
>the phoneline as the antenna. The weaker (5-15 mW) devices may draw power
>from the phone line and are normally in series with one wire. The more

>powerful "bugs" (10-100 mW) require batteries, probably have their own
>antenna. Although rare, maybe you are hearing one of these emitting a spur
>on HF.

>

I'm sure the neighbors (or you) would just _love_ to find out their phone is
bugged. Is this a sort of community service? "-)

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: Gary Surrency <gsurrenc@ix.netcom.com>

Subject: [1859] Re: QRP

Message-ID: <3262C593.6939@ix.netcom.com>

chuck adams wrote:

>

> Gary,

>

> 7W is not QRP. I'm sure that a cast of thousands pointed this

> out to you.

>

> dit dit

> : Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com

> : EMPS QS0s=1 STATES(w/c)=1/0 DX=0

Hey, I tried worked real hard to get that 7w too! ;-)

I knew that was coming when I said it. But I'm honest about my
power levels anyway. Some are not. Technically, it is still
QRP, but not according to the QRP purest. I guess I'll turn it
down a bit and avoid be chatised. I just have poor antennas
that aren't very high due to CC&Rs, so I felt I needed all the
help I can get. Perhaps not. :-)

I still haven't heard the Fox here, so you see what I mean. :-(
Maybe tonight I will get lucky.

72 1/2,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "duane" <duane@flinet.com>
Subject: [1819] Re: QRP homebrew list
Message-ID: <199610141822.0AA19764@shell.flinet.com>

I think your wrong there is nothing wrong with this list. it has lots of
intrest qrp, homebrewing, and antennas. I've been to
rec.radio.amateur.homebrew and found that news group to be of little value
and rude to people as a whole.
from what i've seen lately it seem that the people on this list are aganist
spliting it up ! I think it should remain the same with no changes ! those
who want to start a HB mail list let THEM do so and we'll be right here
when it falls apart.
Duane AB4BE
<http://www.flinet.com/~duane>
duane@flinet.com
ab4be@amsat.org

> From: Bradley S. Mitchell <bmitchel@kodak.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: QRP homebrew list
> Date: Monday, October 14, 1996 11:00 AM
>
> Hi everybody,
>
> I have been on the QRP-L for a long time, and have seen
> the list change considerably since it started.
>
> Because it is becomming a list more of people building
> kits and Chasing foxes, I proposed that a new QRP-HB homebrew list be
created.
>
> Many people e-mailed me directly, and said, good idea..Many
> posting to the list directly said, No Way.
>
> Now, my question is is there enough interest out out there to support
> a QRP-HB (Homebrew) list or not?
>
> By some people on the list, I was told to come here and post
> (rec.radio.amateur.homebrew).
>

> With the current thread that is going on here, it seems that
> Homebrewing in general is at risk.
>
> What do you all think?
>
> 73
> Brad Mitchell
> WB8YGG
>

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [1815] Re: QRP homebrew list: NO and misc ramblings (LONG)
Message-ID: <32627FB4.6E21@ix.netcom.com>

Guys and gals,

I like this list as it is.
I vote no for a separate homebrew list.
There is enough mail on this list alone to occupy a lot of my free time.

There aren't enough members contributing to the list, some merely read the mail. That's OK, they'll post something when they get an idea or something perks their interest. Everybody is different. New members are joining all the time. This is the most civil group I've seen.

BTW, I was extremely impressed with the membership data recently posted here that showed the number of members broken down by license class! I wonder if there is another group that has a similar pyramid with the same distribution of members from Novice to Extra? Most interesting.

I have constantly been impressed by the knowledge base and friendly exchanges by members of this list. A great group! Let's keep it as is.

OK, I've said my piece on the subject. No further comment about it. Hope this thread ends soon.

--

OTOH, I worked several stations this weekend on 30m that were really strong. band seems really good about an hour or two before sundown. Worked K6QT in Idaho and he gave me a 589. He was QRO with 100w, I was QRP with 7w on the ARK30. I just pulled off the balun as an experiment after hearing Lew's comments on them. Seems he doesn't think they are necessary at all, so I'll try it. There's gotta be some loss to them, I suppose. And it makes my dipole not sag as much without it.

The wire had stretched a bit so I needed to shorten the dipole to get the resonance

to move from 10.00 to 10.125 MHz. I use a bakelite 3AG fuse clip as a center insulator. I just solder the coax to an old fuse that is open, and snap it into the fuse holder. Same as the balun I pulled off. :^)

Picked up a butane torch from Solder-IT company at the ARRL convention. Works great for outside antenna connections. Much better than the old torch I had from Radio Shack. It keeps a constant flame when upside down, and the catalytic solder tip is great. And there's lots of different pastes included for different metals.

40m was weird last night here. The QSB was very deep. I tried switching from the indoor dipole to the 300ohm tuned-fed Vee outdoors. Funny thing was, one was better on the QSB dip, but was worse on the QSB peak! So it didn't matter which one was used, 'cause one was just the opposite of the other on the peaks and nulls.

I hope it gets better before the FOX runs!

Still trying to hear some QRP activity on EMPS. Not much heard here, but I'll keep listening and give a call now and then. The antenna is a tuned-fed loop about 240ft around, but it's pretty low in height. Manmade QRN is high here.

Cheers, ciao, 72, 73, etc.,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

Subject: [1782] Re: QRP-HB

Message-ID: <Pine.SOL.3.94.961014064542.10555D-100000@utkux4.utcc.utk.edu>

I am wondering if HB and QRP can be effectively split without duplicating many messages to both lists, to which many would subscribe, thus doubling the number of messages in their box.

Many QRP operators want to know about the latest info. modifications, etc. to their rigs. Many HB fans benefit from operating reports with kits they are building or thinking of buying. Where does one put antenna info?

I suspect that for many folks, the mail will increase, with many messages appearing on both lists, just in case there is interest. And those who subscribe to only one of them will keep on wondering if they missed something important or useful.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: kt3a@juno.com (Cameron CR Bailey)
Subject: [1742] Re: QRP-HB list
Message-ID: <19961013.141624.8879.1.kt3a@juno.com>

Brad,
I would love to design my own. I am not at that point in my hobby.
So, in the interim, I enjoy reading the postings of those who do.
Meantime, I'll build from designs or kits. Just because I read the
postings on design and do not comment does not mean I did not enjoy the
posting. I only means that I do not have enough knowledge or
experience to comment. Have you considered how many on the
list are new, new not just to building, but to even operating?
If you get a taker on the HB list, I'll subscribe, but I won't leave here
either.
Cameron CR Bailey, KT3A <><
ARCI Board member, QRP-L 7
QRP Society of Central Pennsylvania

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: k5zty@hamgate2.w5-f6cnb.ampr.org
Subject: [1744] re:QRP-HB list
Message-ID: <19221@sugarland.ampr.org>

I hate facts stated as a percentage. This always makes me think someone
is trying to sell me something. "90% of my responses have been in
favor of a separate hb list." Sounds like one of those 50% off sales;
50% off what?? Give us some numbers. How many list subscribers, how
many responses, how many for or against?? I can do the percentages.
Count my response as for keeping the list together. Put "HB" in your
subject line. I also delete 2/3 of the messages.

72,

Bill, K5ZTY

ARCI #8817 NORCAL #1321 CQC #178 MI #1472 NE #440 QRP-L #473
WITHOUT CW, IT'S JUST CB

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Bob Edwards <rbe@atlanta.com>
Subject: [1714] Re: QRP-HB list vs HB:
Message-ID: <3260E883.6B5B@atlanta.com>

This is a multi-part message in MIME format.

-----4C7E4CB17E4
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Joe Gervais, KC7NEV, wrote:

>..... why not try putting "HB: <whatever>" in
> the subject of all messages about homebrewing?

My exact thoughts. I delete about 2/3 of all messages just because I spend too much Hobby time in front of a CRT. My deletion criteria is the subject line - so - the "HB:" would get my attention. Lets try it. Maybe Chuck could give us a direction on this.

73/72 Bob

-----4C7E4CB17E4
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Disposition: inline; filename="FOOTER.TXT"

|-----|
| Bob, AE4CA, WAS-5W, nr Atlanta, EM73wt | "QRP", more from less....
|-----|
ARCI, MIQRP, COQRP, QRPL, ARS, No rCAL
:EMPS QS0s=17 STATES=13 DX=0, MO,MS,GA,AR,MI,IL,KY,DC,PA,LA,TX,NY,TN

-----4C7E4CB17E4--

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Joe Gervais <vole@primenet.com>
Subject: [1711] Re: QRP-HB list (again)
Message-ID: <199610130557.WAA05566@primenet.com>

Brad (WB8YGG) wrote:

>

> Believe it or not, 90 % of the respondents to my
> posting are in favor of a separate list, for various reasons.
[SNIP]
> and are frustrated when they get no response when posting.
> Probably not because people are not out there, but most likely
> because the post is buried in amongst others. Kinda like
> looking for a needle in the proverbial haystack.

I'd hate to lose the HB traffic here. I have a huge archive of
HB-related messages, but I rarely write back due lack of time,
etc. If it would help, why not try putting "HB: <whatever>" in
the subject of all messages about homebrewing? That'd help everyone
find the needles in the haystack, much like the "FOX: <whatever>"
prefixing does.

Whaddya say? Give that a shot before trying to break up the
List? Unfortunately I wouldn't be able to subscribe to two
mailing lists. Nowhere near enough time.

Keeping my fingers crossed....

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996

From: Tom Bowman <tbowman@nbn.net>

Subject: [1719] Re: QRP-HB list (again)

Message-ID: <2.2.32.19961013130127.006ce7f0@nbn.net>

At 10:04 PM 10/11/96 est, you wrote:

> Believe it or not, 90 % of the respondents to my
> posting are in favor of a separate list, for various reasons.

> 73 Brad WB8YGG

>

I'm just adding my vote to keep all homebrew information on qrp-1
rather than splitting into a separate HB list.

Using HB in the subject field of the message is a great idea, as others said.
My mail reader - call me old fashion but I love Eudora Pro - will filter for HB
and place those messages in a Home Brew folder under my Ham Radio file.

One other quick thought: I've subscribed to qrp-l for more than two years now and I value qrp-l messages above the rest of my mail because of the flavor of the messages here. That's because of the diverse topics covered by qrp-l.

I'll bet if you start a pure HB list, messages will soon wonder off topic.
So why not
keep the HB messages here.

73,
Tom

Tom Bowman, WA3REY, Mount Gretna, PA 17064 tbowman@nbn.net

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: DCrespy@aol.com
Subject: [1724] Re: QRP-HB list (again)
Message-ID: <961013102100_125490487@emout03.mail.aol.com>

In a message dated 96-10-13 02:01:40 EDT, you write:

<<
Brad (WB8YGG) wrote:
>
> Believe it or not, 90 % of the respondents to my
> posting are in favor of a separate list, for various reasons.
[SNIP]

I'd hate to lose the HB traffic here.
If it would help, why not try putting "HB: <whatever>" in
the subject of all messages about homebrewing?

Whaddya say? Give that a shot before trying to break up the
List?

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

Joe.. I agree.. I responded emotionally to Brad's original post.. but my
real objective would be to use THIS FORUM for HB activities and I like your
idea.. HB to start the message line not only gives us a search method, but

helps in scanning the daily on-slaught of e-mail here. Thanks for a great alternative.. I hope other's agree..

Harry, KG5LO Saline MI

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Greg Newberry <newberry@cyberhighway.net>
Subject: [1725] Re: QRP-HB list (again)
Message-ID: <3261197A.3E44@cyberhighway.net>

Joe Gervais wrote:

>
> Brad (WB8YGG) wrote:
> >
> > Believe it or not, 90 % of the respondents to my
> > posting are in favor of a separate list, for various reasons.
> [SNIP]
> > and are frustrated when they get no response when posting.
> > Probably not because people are not out there, but most likely
> > because the post is buried in amongst others. Kinda like
> > looking for a needle in the proverbial haystack.
>
> I'd hate to lose the HB traffic here. I have a huge archive of
> HB-related messages, but I rarely write back due lack of time,
> etc. If it would help, why not try putting "HB: <whatever>" in
> the subject of all messages about homebrewing? That'd help everyone
> find the needles in the haystack, much like the "FOX: <whatever>"
> prefixing does.
>
> Whaddya say? Give that a shot before trying to break up the
> List? Unfortunately I wouldn't be able to subscribe to two
> mailing lists. Nowhere near enough time.
>
> Keeping my fingers crossed....
>
> Cheers de KC7NEV,
>
> -Joe, vole@primenet.com, AZ ScQRPions
Gang, et al,

You know having a standard for starting subjects as Joe mentioned has merit. I sort my mail by subject and threads. All the "FOX:" subjects are together. The same would happen to "HB:" as well. Those who want the HB mail will have it one place, and likewise others can do a group delete if it isn't their thing.

I originally posted a private reply in favor of a list, but I must re-consider. To me QRP=HB, QRP=KITS, it's all bound together. In other articles I've read, QRP has the largest percentage of kit builders and home brewers of any segment of ham radio except the 1ghz and above. Maybe keeping it all together would give a more rounded discussion.

I don't feel my daily mail level is too high. Yet. When we reach 150-200 posts a day we may have to reconsider. But again, standardized subject headers will allow anyone to weed out portions of mail they aren't interested in.

Just my .03 cents
Greg

--

Greg Newberry - WB7DUO QRP-L #760
newberry@cyberhighway.net
newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Hank Kohl <k8dd@tir.com>
Subject: [1727] Re: QRP-HB list (again)
Message-ID: <2.2.32.19961013134003.006c909c@tir.com>

>At 22:57 10/12/96 -0700, Joe, KC7NEV, wrote:

>>

>>Brad (WB8YGG) wrote:

>>>

>>> Believe it or not, 90 % of the respondents to my
>>> posting are in favor of a separate list, for various reasons.

>>[SNIP]

>>> and are frustrated when they get no response when posting.

>>> Probably not because people are not out there, but most likely

>>> because the post is buried in amongst others. Kinda like

>>> looking for a needle in the proverbial haystack.

>>

>>..... If it would help, why not try putting "HB: <whatever>" in
>>the subject of all messages about homebrewing? That'd help everyone
>>find the needles in the haystack, much like the "FOX: <whatever>"
>>prefixing does.

>>

>

>

>Joe has a super idea here. A lot of mail readers have filters and you
>can put the HOMEBREW stuff in the Homebrew mailbox. I use good ole

>Eudora Pro 2.2(32) exclusively over 95's Inbox because of the mail
>filtering and because I am in the Contest, NA-User, and PacketCluster
>reflectors along with qrp-l. It makes it very easy to "read by subject".
>

>I would rather see that than another group starting up and splitting this
>fine group apart.

>

>73 Hank K8DD

>

>

*/ Hank Kohl K8DD k8dd@contesting.com <---- new

*/ MI-QRP - Vice Pres. QRP-ARCI - Director

*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996

From: wb8ygg@juno.com (Bradley S. Mitchell)

Subject: [1728] Re: QRP-HB list (again)

Message-ID: <19961012.110414.8839.0.WB8YGG@juno.com>

I guess that I don't think that I'm in favor of putting the HB in the
title.

QRP-L has Been very good to me.. Sounds like a Saturday Night Live
line...

But it's getting very diverse, and not everybody has the luxury of
filtering
the posts. EG: JUNO subscribers can only filter by having a different
list.

If we are even considering the fact that we need to put titles on top of
our posting titles, this indicates a need.

And then what about the new person on the list that posts , "is there
anybody

that knows how to design a vfo" and because he/she didn't know about the
HB needed to be on the title, then there are no responses.

I don't want qrp-l to split either, but I'm not sure I think that it
would be

a split. I think that the majority of homebrewers have un-subscribed, ,
or are in the pure listening/deleting mode.

So any volunteers to maintain/provide a new list, please step forward.

QRP-HB

73 Brad WB8YGG

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Dale LeDoux <dledoux@laci.net>
Subject: [1733] Re: QRP-HB list (again)
Message-ID: <1.5.4.16.19961013095121.242fa282@laci.net>

> I'd hate to lose the HB traffic here.
> If it would help, why not try putting "HB: <whatever>" in
> the subject of all messages about homebrewing?
>
> Whaddya say? Give that a shot before trying to break up the
> List?
>
> Cheers de KC7NEV,
>
> -Joe, vole@primenet.com, AZ ScQRPions
>
>Joe.. I agree..
>Harry, KG5LO Saline MI
>

Gents--

Put me down as one who does NOT want HB to split out of the forum. In the few months that i have participated here, I have been entertained, educated, amused and delighted (and aggravated once or twice) by the variety of postings. Perhaps that's why I continue to participate.

In my opinion, homebrewing and kitbuilding are core to the qrp bunch. While not everyone has the ability to design and build from scratch, many of us go various other routes from building to articles, buying and filling pc boards or selecting some of the great kits, but just about everyone here builds something, and to pull homebrew out of here would take away a bit of all of us... let's keep it here, and if your message is about homebrewing, then try to remember to "HB:" in the subject line...

72--

Dale LeDoux
Bath Electrical Systems
Power Specialists -- 480 V to 230 KV
KD5QI -- QRP-L #602

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Dan Hogan <dhhogan@lightside.com>
Subject: [1746] Re: QRP-HB mt last words
Message-ID: <199610131920.MAA04269@covina.lightside.com>

I have been on the internet 7 years. All of it through a commercial ISP. I have belonged to 40 or 50 different mail lists, currently to 9 lists.

This "let's break up no one is talking what I want to hear," "There's too many messages we need a separate group," etc., is the sign of a maturing group IT HAPPENS TO ALL of them. Usually the splinter groups wither away. A notable few have not. BUT after the while the splinter group will suffer the same fate as the parent group. The long lived groups practice tolerance, cooperation and self-discipline.

I like homebrew and QRP and QRP operating. I don't currently own a commercial HF rig. I like THIS list. Also lists need a home and someone to watch over it. All this activity the list, the service on the internet, the archives are provided free and is maintained by VOLUNTEERS in addition to their normal duties. Think about what you are asking for. If you want it DO IT, you start the group and set it up. There is no one to stop you, but you have to do it. On the internet there is no one in charge, the catch is finding a server and service provider that will take your list.

Usually the call for a new lists is the result of people using poor Email readers or a limited ISP. And I am not going to say that the call for a splinter group is usually by a Newbie...no I'm not going to say that.

If you don't like QRP-L, BYE!

73

Dan Hogan WA6PBY QRP-L #558, CQC #340, NorCal #1806, ARRL
dhhogan@lightside.com Lat. 34d 03.5'N Lon. 117d 56.0'W
Grid: OM84wc

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: JCoote@aol.com
Subject: [1878] Re: Quick Antenna question
Message-ID: <961014222610_1246094641@emout11.mail.aol.com>

In a message dated 96-10-14 02:15:10 EDT, buydens@duke.usask.ca
(Brian.Buydens@usask.ca) writes:

<<

I have a 5/8 wavelength antenna for 2m which is attached to the roof of my car and I wish to connect it to my HT with GR-58. Would anyone know off hand what the characteristic impedance of the antenna would be or better yet the optimal length of cable to use.

>>

A 5/8 antenna uses a coil to get it to match to 50-ohm line. Without the coil, that length of antenna would have a little reactance at the feed and the wrong impedance (a hundred ohms or so, I remember). The coil fixes that.

There is no optimal length of cable really, not if the antenna is tuned/matched properly. Some folks (many of them CB'ers) incorrectly try to cure an antenna problem by painstakingly trying to cut the coax to a length which provides a good SWR at the radio (who knows what is going on at the antenna). This same mindset also probably buys those MFJ coax-only tuners for 146, 223 or 446 MHz.

I've done many gov't and public safety mobile and base antennas. Tune the antenna with a good wattmeter such as a Bird. With a set of Bird slugs to choose from, you can get your reflected power (SWR) way down. Lengthen or shorten the whip for lowest reflected power at mid-band (146 Mhz?) (Some ham and CB wattmeters won't be accurate at VHF).

Bottom line? tune the mobile antenna by adjusting length for lowest reflected power.

Don't play with the coax or buy a tuner to fix an antenna problem.

73, Jay

WB6AAM

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: "Thomas J. Whalen" <whalen@swcp.com>

Subject: [1786] Re: Radio Shack DSP catalog number ???

Message-ID: <Pine.SUN.3.91.961014081019.11127A-100000@kitsune.swcp.com>

On Sat, 12 Oct 1996, Stephen A. Baranowski wrote:

> Hi Guys -

>

> If you know the model / catalog number on the Radio Shack DSP unit -

> the discontinued one - please let me know - -

>

> Thanks and

> 72 de Steve / AA1BK

>

Steve it is called a dsp-40 and part # 21-543. I found one today and may go get it today. Tom>

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996

From: Vic Rosenthal <rakefet@rakefet.com>

Subject: [1710] Re: Radio Shack DSP Filter

Message-ID: <32607E45.1E64@rakefet.com>

JAMES PARSONS wrote:

>

> Hi, Gang...

>

> I see a lot of questions concerning the Radio Shack DSP filter, which has
> been discontinued, but can still be found.

< snip >

I'd like to temper some of the enthusiasm for this box by pointing out that the distortion introduced on CW by this filter was enough to make me dump mine. I have compared it to an MFJ, and the MFJ was as whole lot easier to listen to. I know this is very subjective business, so your mileage may vary (but don't say I didn't warn you).

Vic K2VCO Fresno CA

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996

From: k5rov@juno.com (JAMES PARSONS)

Subject: [1712] Re: Radio Shack DSP Filter

Message-ID: <19961013.010617.4655.1.k5rov@juno.com>

<I'd like to temper some of the enthusiasm for this box by pointing out
<that the distortion introduced on CW by this filter was enough to make
<me dump mine. I have compared it to an MFJ, and the MFJ was as whole
<lot easier to listen to. I know this is very subjective business, so
<your mileage may vary (but don't say I didn't warn you).

<Vic K2VCO Fresno CA

Your comments are interesting, Vic. I have the RS and the MFJ sitting side by side, and really can't tell any difference in audio quality. Of course the MFJ is far ahead of the RS filter in all other areas. Very interesting comment about the poor quality of your Radio Shack's filter..

73 de Jim, K5ROV

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [1717] Re: Radio Shack DSP Filter
Message-ID: <v01540b02ae868661be21@[157.142.8.154]>

>JAMES PARSONS wrote:

>> (SNIP)

>

>I'd like to temper some of the enthusiasm for this box by pointing out
>that the distortion introduced on CW by this filter was enough to make
>me dump mine. I have compared it to an MFJ, and the MFJ was as whole
>lot easier to listen to. I know this is very subjective business, so
>your mileage may vary (but don't say I didn't warn you).

>

>Vic K2VCO Fresno CA

My two cents worth:

I have the RS DSP and find that it works great unless you overdrive it. If I have the AF gain set too high then the filter does indeed distort CW (and SSB, etc.). However, by using only the lowest drive needed to give a good audio signal from the filter, I get no distortion.

Mike N5JKY

Edmond, OK

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Ronald Hands <Ronald.Hands@freenet.hamilton.on.ca>
Subject: [1722] Re: Radio Shack DSP Filter
Message-ID: <Pine.GS0.3.95.961013092429.533B-1000000@james.freenet.hamilton.on.ca>

On Sat, 12 Oct 1996, Vic Rosenthal wrote:

>

> I'd like to temper some of the enthusiasm for this box by pointing out
> that the distortion introduced on CW by this filter was enough to make
> me dump mine. I have compared it to an MFJ, and the MFJ was as whole

> lot easier to listen to. I know this is very subjective business, so
> your mileage may vary (but don't say I didn't warn you).

I'm perplexed by this observation, and can only suggest that there must have been some flaw in the RS DSP you were using or you were over-driving it.

I have both the MFJ 748b and the RS DSP and I find the RS provides very clean and pleasant CW output -- in fact, I've been using it in preference to the 748b of late.

Mine is hooked up to an IC-735. I think it's important to set the audio gain on the transceiver -- with the RS DSP in the SSB position -- so that the green LED is just flashing on the DSP unit. The green LED stays on all the time when you switch the DSP to the CW position, so you must make the level adjustment before switching it over to CW. Then adjust the gain control of the DSP unit for a comfortable listening level.

At least that's been my experience...

-- Ron VE3SP

ronald.hands@freenet.hamilton.on.ca

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996

From: Vic Rosenthal <rakefet@rakefet.com>

Subject: [1752] Re: Radio Shack DSP Filter

Message-ID: <326159E2.49B4@rakefet.com>

Ronald Hands wrote:

>

>

>

> On Sat, 12 Oct 1996, Vic Rosenthal wrote:

>

> >

> > I'd like to temper some of the enthusiasm for this box by pointing out
> > that the distortion introduced on CW by this filter was enough to make
> > me dump mine. I have compared it to an MFJ, and the MFJ was as whole
> > lot easier to listen to. I know this is very subjective business, so
> > your mileage may vary (but don't say I didn't warn you).

>

> I'm perplexed by this observation, and can only suggest that there must
> have been some flaw in the RS DSP you were using or you were over-driving
> it.

> I have both the MFJ 748b and the RS DSP and I find the RS provides very
> clean and pleasant CW output -- in fact, I've been using it in preference
> to the 748b of late.

> Mine is hooked up to an IC-735. I think it's important to set the audio
> gain on the transceiver -- with the RS DSP in the SSB position -- so that
> the green LED is just flashing on the DSP unit. The green LED stays on all
> the time when you switch the DSP to the CW position, so you must make the
> level adjustment before switching it over to CW. Then adjust the gain
> control of the DSP unit for a comfortable listening level.
> At least that's been my experience...
>
> -- Ron VE3SP
> ronald.hands@freenet.hamilton.on.ca

Well, the consensus seems to be that I was wrong... Unfortunately, I no longer have the filter, and I do recall being careful not to overdrive it. So I can only conclude that either mine was defective, or I have unusually picky ears.

Vic

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [1799] Re: Rotatable Dipole

>Saw what was billed as a "rotatable dipole" made from
>two "hamstick" verticals...
>Has anyone ever used such an arrangement? Would it work for
>80 metres?

Hi Steve, an 80m Hamstick has less than 1% efficiency. If you really want a QRP challenge, sacrificing more than 99% of your power in your antenna system will give you one. 2 watts into your antenna and 15mW radiated. Now that's real QRP.

There's no efficient 80m mobile antenna that mounts on a car. There's nothing anyone can do about that. But using an 80m mobile antenna for fixed use should be reserved for emergencies when no other antenna is available because one can always do better. Doubling the size of a *very* short dipole more than doubles the efficiency.

73, Cecil, W6RCA, 00TC (not speaking for my employer)

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Mike White (mpw)" <mpw@sequent.com>
Subject: [1802] Re: Rotatable Dipole

Message-ID: <32626ABC@ushqgw.sequent.com>

>an 80m Hamstick has less than 1% efficiency. If you
>really want a QRP challenge, sacrificing more than 99% of your
>power in your antenna system will give you one. 2 watts into
>your antenna and 15mW radiated. Now that's real QRP.

I'm an antenna weenie. How does a full wave loop compare
to a dipole? I'm looking at building a 40m loop (as in the Loop Skywire)
on my little lot. Should I invest the effort?

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "David E. Shelton" <ke4fps@iglou.com>
Subject: [1874] Re: Saturday's Big Receiver Test!
Message-ID: <3262EF5D.771C@iglou.com>

Craig J. Sterling wrote:

>
> Greetings from the District of Corruption,
>
> Thanks first to Stan in beautiful downtown St. Charles, MO for running
> his 250mw beacon for us. This beacon was Q5 ALL DAY! Stan was really
> QRO! Hi! A QRO TNX to my friends Scott, NF3I (he didn't even try to
> sell me anything!) and Govind, KA3RTE ... who by the way holds a
> license in his native VU and will be QRV from there in the near future
> .. stay tuned! Anyway, condx were FB, I was even copied sending CQ
> QRPP on 40M in NM at 250mw.
>
> THE TEST: Copy AK0B/B on OMNI VI, OMNI V and KNWD TS850.
> THE WINNER: OMNI VI followed closely by the OMNI V followed closely
> by the TS850 (with my Timewave DSP 59+ the similarities were VERY
> CLOSE!) Anyone with the disposable income or lack of fiscal
> responsibility should seriously consider something like the
> Timewave...IMHO.
>
> During the test we set all three rigs with only the 500hz filters in
> the 1st IF engaged, set the AGC to FAST...sometimes even off and let'er
> rip! I must say the differences were subtle...where the OMNI VI
> excelled was in deep QSB fades. It was the last rig to loose the
> signal followed by the OMNI V and TS850.
>
> It just so happened that during the test an adjacent signal QRM'd the
> beacon ... The OMNI V won out followed closely by the OMNI VI, but by a
> thin hare. The TS850 got hammered, even when I switched in the 2nd
> 500hz filter in the 2nd IF. The Timewave helped tremendously as did

> the slope tuning and notch, but I must say TEN TEC's front end is
> somewhat more bulletproof.
>
> Hey everybody, this was interesting stuff! I fully expected to see a
> night and day difference between the OMNIs and my TS850. In fact, if
> the difference were that dramatic I would have started saving my
> shekles for the TEN TEC yesterday! I actually liked the ergonomics of
> the KNWD better and the appearance of the TEN TEC more so than the
> TS850, but that's another story. I'm not a contest guy or phone guy,
> consequently my opinions are somewhat skewed towards just plain old
> DXing and operating...OK!
>
> 2nd TEST: SCOUT VS ICOM 706. Winner: 706...WHY: Just had more stuff.
> Front-end overloaded like a champ. I live about 1 mile from several
> commercial radio and tv stations...rf central! The Scout actually did
> much better with respect to overload and heard EVERYTHING the 706
> heard! Really!!! Love that variable bandwidth filter and solid main
> tuning knob. IMHO a solid radio with very sensitive receiver and
> excellent selectivity. If you want HF only and not 6 and 2 meters and
> don't care about operating from your flashlight battery, the Scout is a
> super little rig ... IMHO. We even compared my TAC1 in this group.
> Guess what? It heard everything the other rigs heard, even the TS850
> and it costs \$200! My Norcal 40A heard everything also, but you had to
> work just a little harder. No fault of the 40A, I've had many
> enjoyable contacts and even some of them were DX ... from the deck at
> my QTH!
>
> The radio that blows me away is my Explorer II (20M). It hears
> everything the TS850 hears and just as well! At \$100 that's scarey!!!!
>
> Anyway everybody, this was an exercise to evaluate "high-end"
> receivers. It was very subjective, I'm not an engineer ... or
> scientist! No contests, no stacked yagis, no expectations, other than
> my hoping to see a dramatic difference between the OMNIs and my TS850.
>
> All in all, the differences in receivers were very subtle with the
> exception of adjacent channel interference, where the OMNI's clearly
> out performed the 850, but with the DSP it was only a marginal victory.
> Since I'm not a tester, the difference wasn't worth the \$\$\$\$\$, IMHO.
>
> This was really a lot of fun. Our next test will be the benefits of
> flossing with dental floss or litz wire...stay tuned!
>
> TU ALL,
> Craig, AA3MD

Craig,

Just so you will know the receiver in the Omni V and VI are the same.
Exact same schematics, no differences. Yes, you are right the Omni does
have the best receiver currently available.

73,

--

=====
David E. Shelton, RN, BSN
Amateur Station KE4FPS
ke4fps@iglou.com
=====

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utm.edu>
Subject: [1716] Re: TEFLON WIRE 2
Message-ID: <Pine.SOL.3.94.961013072638.15412K-100000@utkux4.utcc.utm.edu>

Why do I sense a whole batch of teflon coated light-weight field antennas
resulting from Jim's generous offer? If anyone uses the wire for this
purpose, please take two things into account: a. the insulation will
likely shorten the physically resonant length of any dipole by a few
percentage points relative to bare wire, and b. the wire will stretch,
although the stranded lengths will likely be stronger than an equal size
solid wire. Rumors that incoming signals will not stick to a
teflon-coated antenna are completely unfounded. There ought to be some
very interesting long Vees and loops next Field Day. Or maybe some
teflon-ed versions of the SLV. By the way, a pair of these base to base
might make a usable helical dipole fed with twinlead to an ATU and
supported by a single mast. I have not seen the article yet, but
horizontal use seems possible, since the droop is unlikely to cause any
electronic problems if the fishing pole won't break. For QRP work,
winding the pole with light #28 copper wire would also be an option to
reduce horizontal droop. But this is speculative until I receive my QRPP.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [1811] Re: Texas Wins Fox World Series Game 4!

Message-ID: <199610141726.MAA27225@multi2.pic.net>

<< ss@%33 nml at.ddd,... Private message. Do not forward. ss@%33 nml at.ddd,... >>

Good coaching Doug.

That was a brilliant idea, telling all the CA ops to lay low while the details of the challenge were being worked out. Sure suckered them Texans. Ha!

I don't think anyone has caught on to the group buy of Teflon wire for the NorCal stacked rhombic. Having everyone buy a couple thousand feet each was a good diversion. After we solder all those rolls together, we should have about 50 dB gain.

So what do we do Monday? Melt the ionosphere? or let them get overconfident?

Mike K1MG

oops, didn't mean to send this to the list. <cancel> <cancel> <cance

From owner-qrp-l@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [1772] Re: Too Much CW?
Message-ID: <199610140352.UAA05742@dancris.com>

At 06:40 PM 10/13/96 -0700, you wrote:

>This took all of about 3 seconds while I rolled over and looked out the
>window at the early morning hazy sky, realizing I was trying to copy a
>dump truck that was backing up with it's reverse beeper on.....
>

A qrp dump truck? Wow!

73,

Bob, KI7MN QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, not in any order of importance.

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Kevin Muenzler <muenzlerk@uthscsa.edu>

Subject: [1781] RE: Too Much CW?

Message-ID: <01BBB9AB.D4BB2000@muenzlerk.uthscsa.edu>

On Sunday, October 13, 1996 3:52 PM, Bob Hightower[SMTP:ki7mn@dancris.com] wrote:

>At 06:40 PM 10/13/96 -0700, you wrote:

>

>>This took all of about 3 seconds while I rolled over and looked out the
>>window at the early morning hazy sky, realizing I was trying to copy a
>>dump truck that was backing up with it's reverse beeper on.....

>>

>

>A qrp dump truck? Wow!

>73,

>Bob, KI7MN QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, not in any
>order of importance.

>

>

>

The beeper on that dump-truck probably consumed more power than your
QRP rig!

Kevin

WAS-44 (need UT, VT, ND, WY, RI, LA)

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: "marcus (m.c.) leatham" <leatham@nortel.ca>

Subject: [1791] Re: Too Much CW?

Message-ID: <"21277 Mon Oct 14 10:56:15 1996"@bnr.ca>

>>This took all of about 3 seconds while I rolled over and looked out the
>>window at the early morning hazy sky, realizing I was trying to copy a
>>dump truck that was backing up with it's reverse beeper on.....

What's worse is a fat lady in the grocery store checkout line, when
her beeper goes off: "Oh, no! She's backing up!!!"

Hey, there was a great black & white movie made a long time ago
called "Run Silent, Run Deep" and it was about submarines in WWII.
The sub's radio officer was sick, in a fever, and he kept hearing
morse code in his mind. He always said "What is that, sir? I can't
make that out." So, anyway, it turns out that the CW he was
hearing was a real transmission that he actually heard and he finally
copies what it said and it gave them important information which

saved the sub. Cool.

Marcus KR5N

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Bob Patten <n4bp@shadow.net>
Subject: [1809] Re: Too Much CW?
Message-ID: <Pine.SOL.3.91.961014131115.22062B-100000@hyper>

On Mon, 14 Oct 1996, marcus (m.c.) leatham wrote:

> >>This took all of about 3 seconds while I rolled over and looked out the
> >>window at the early morning hazy sky, realizing I was trying to copy a
> >>dump truck that was backing up with it's reverse beeper on.....

>

> What's worse is a fat lady in the grocery store checkout line, when
> her beeper goes off: "Oh, no! She's backing up!!!"

>

This seems the appropriate discussion in which to throw in my story from last winter's contest season...

Deep into one of the contests (I forget which one), my XYL came into the shack and told me she was hearing Morse Code from the toilet. I recalled one of my neighbors at a previous QTH hearing code from her toaster, but this was even better. Of course, I had difficulty believing this, too. So to humor her, I put NA in the "CQ" repeat mode and walked into the other room with her. Sure enough, with the lid up, I could clearly copy "CQ TEST de N4BP K".

The mystery was quickly solved. Some time ago I had observed that my CW on 15M, under certain beam headings, would key the automatic sprinkler system off and on. A further result was a drop in inside water pressure each time the sprinklers "keyed" on. The change in water pressure would cause the toilet flapper valve to move and make noise. It's amazing to me that the toilet could respond that well to 25-30 wpm! Is this a novel receiver or what?

Bob Patten, N4BP

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Patrick Taber <ptaber@logicraft.com>
Subject: [1813] Re: Too Much CW?
Message-ID: <1.5.4.32.19961014173737.0093f7c4@freebird>

>The mystery was quickly solved. Some time ago I had observed that my CW
>on 15M, under certain beam headings, would key the automatic sprinkler
>system off and on. A further result was a drop in inside water pressure
>each time the sprinklers "keyed" on. The change in water pressure would
>cause the toilet flapper valve to move and make noise. It's amazing to
>me that the toilet could respond that well to 25-30 wpm! Is this a novel
>receiver or what?

>

Whoa! Write it up! You can be the first use of WC-CW! Call it the
Patten-Crappier Detector! Of course, at slow speeds, there'd be a marked
increase in water consumption. You'd probably have to describe the phenomena
with 3dB-BM-BW....

I'd better stop before the whole CW thread goes down the toilet.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Bob Patten <n4bp@shadow.net>
Subject: [1834] Re: Too Much CW?
Message-ID: <Pine.SOL.3.91.961014155334.3132B-100000@hyper>

On Mon, 14 Oct 1996, Patrick Taber wrote:

> >The mystery was quickly solved. Some time ago I had observed that my CW
> >on 15M, under certain beam headings, would key the automatic sprinkler
> >system off and on. A further result was a drop in inside water pressure
> >each time the sprinklers "keyed" on. The change in water pressure would
> >cause the toilet flapper valve to move and make noise. It's amazing to
> >me that the toilet could respond that well to 25-30 wpm! Is this a novel
> >receiver or what?

> >

> Whoa! Write it up! You can be the first use of WC-CW! Call it the
> Patten-Crappier Detector! Of course, at slow speeds, there'd be a marked
Maybe I can patten(t) it and retire from the millions of sales?

> increase in water consumption. You'd probably have to describe the phenomena
> with 3dB-BM-BW....

>

> I'd better stop before the whole CW thread goes down the toilet.
I think it just did... Sorry about that!

Bob Patten, N4BP

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Greg Newberry <newberry@cyberhighway.net>
Subject: [1840] Re: Too Much CW?
Message-ID: <3262BDC3.2A41@cyberhighway.net>

Bob Patten wrote:

>
> On Mon, 14 Oct 1996, marcus (m.c.) leatham wrote:
>
> > >>This took all of about 3 seconds while I rolled over and looked out the
> > >>window at the early morning hazy sky, realizing I was trying to copy a
> > >>dump truck that was backing up with it's reverse beeper on.....
> >
> > What's worse is a fat lady in the grocery store checkout line, when
> > her beeper goes off: "Oh, no! She's backing up!!!"
> >
> This seems the appropriate discussion in which to throw in my story from
> last winter's contest season...
> Deep into one of the contests (I forget which one), my XYL came into the
> shack and told me she was hearing Morse Code from the toilet. I recalled
> one of my neighbors at a previous QTH hearing code from her toaster, but
> this was even better. Of course, I had difficulty believing this, too.
> So to humor her, I put NA in the "CQ" repeat mode and walked into the
> other room with her. Sure enough, with the lid up, I could clearly copy
> "CQ TEST de N4BP K".
> The mystery was quickly solved. Some time ago I had observed that my CW
> on 15M, under certain beam headings, would key the automatic sprinkler
> system off and on. A further result was a drop in inside water pressure
> each time the sprinklers "keyed" on. The change in water pressure would
> cause the toilet flapper valve to move and make noise. It's amazing to
> me that the toilet could respond that well to 25-30 wpm! Is this a novel
> receiver or what?
>
> Bob Patten, N4BP
Good one Bob!!
Greg

--

Greg Newberry - WB7DUO QRP-L #760
newberry@cyberhighway.net
newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: Bob Patten <n4bp@shadow.net>
Subject: [1841] Re: Too Much CW?
Message-ID: <Pine.SOL.3.91.961014163647.4629A-100000@hyper>

On Mon, 14 Oct 1996, Greg Newberry wrote:

> > cause the toilet flapper valve to move and make noise. It's amazing to
> > me that the toilet could respond that well to 25-30 wpm! Is this a novel
> > receiver or what?
> >

> Good one Bob!!

Thanks Greg. Trying to recall - think it was when I had the TH7 aimed at Africa. Of course, this will stop when I replace the flapper valve. This one makes a horrible noise when you flush.. I guess it's sort of like a galena xtal where the cat whisker has to be placed exactly right to detect RF...

Does that date me or what?

73,

Bob Patten, N4BP

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [1741] Re: Toroids

>Maybe a better question is: What is the formula for
>winding toroids?

Hi Mike, The A(L) values for toroids is a published figure and is in microhenries per 100 turns. Then knowing A(L):

Turns = $100 \times (\text{SQRT}(L/A(L)))$ Take the desired inductance, divide it by A(L), take the square root and multiply by 100. Amidon has a 24-page blurb, "IRON-POWDER and FERRITE COIL FORMS".

73, Cecil, W6RCA, 00TC (not speaking for my employer)

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: Hank Kohl <k8dd@tir.com>
Subject: [1767] Re: Tower Mounting conclusion...
Message-ID: <2.2.32.19961014011525.006ba2e4@tir.com>

At 15:34 10/13/96 -0500, you wrote:

>

>One final question (the catch is here->>>) What can I use
>for a mast? Do I need to go buy one of those expensive 100 dollar
>jobbies, or is there something in the hardware store I can use???

>

>

I use top fence rail available from the local fence place. I've got 2" pipe with 1 1/2" pounded inside of it. I didn't need to do that since I only put one beam on the tower. Assuming you aren't going to put up anything too big on the top section, I'd get a piece of top rail that will fit in the top section. Stick 8 or 9 feet on top of the rotor, put a small beam right over the top, and a 2 meter antenna on the top (so you have something funny to listen to when the bands are dead!) Really don't think you need one of the thick wall aluminum masts unless you are going to stack HF yagi's!

73 Hank K8DD

```
*/      Hank Kohl  K8DD      k8dd@contesting.com    <---- new
*/      MI-QRP - Vice Pres.  QRP-ARCI - Director
*/      G-QRP      ARRL/LM    QCWA/LM      QCAO/LM
```

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Patrick Taber <ptaber@logiccraft.com>
Subject: [1790] Re: Tower Mounting conclusion...
Message-ID: <1.5.4.32.19961014135337.009839d4@freebird>

> So,,,How does this sound to you all? Safe? I will NOT
>be using guy wires,and what is going on the tower is about a 10 or 15
>foot mast,my rotor,(ham-m inside the tower on plate), a butterfly
>beam,maybe my 2meter small 4 ele beam,and toping it off is a
>2/440 diamond 200 (about 6 foot light vertical)
>

I don't believe Rohn recommends having a roof-mounted tower section without guys. The purpose of guy wires is to redirect the wind's push from the side (shear) into a push downward (compression) which most installations can handle easily. If the energy isn't redirected, the tower becomes a huge lever. If you look at the 9 foot tower plus the (say) 10 foot mast with antennas on it as a 19-foot crowbar, you have to ask yourself if you think a wind-driven crowbar that size could rip that section of roof off? I'd say it could, but I'm a scardey-cat.

Roof-mounted towers really need the involvement of a structural engineer. If

you don't bring one in on it, or at least follow the manufacturer's (Rohns) installation instructions, then your insurance company is going to laugh it off if there's a problem and your town building inspector is going to be able to tell you to dump the installation the first time a neighbor complains.

Maybe you don't have neighbors, I don't know. Maybe you don't have a building inspector. Maybe you self-insure. Even then, from a peace of mind standpoint it's better to get your installation design from someone who understands structure rather than a bunch of good ol' guys on the net.

You also have to remember you're going to have more than a 2M beam and a vertical up there -- you're going to be on it too!! (Working on the rotor, installing the beam and so on. And don't kid yourself that you'll never go up after it's installed.) If a gust came along while you were up there, would you survive? Or more important, would your antennas? (Got to have priorities....)

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: "Basil Arrick" <basil@mail.airmail.net>
Subject: [1832] Re: Tower Mounting conclusion...
Message-ID: <m0vCsyst-000FLyC@mail.airmail.net>

> You also have to remember you're going to have more than a 2M beam and a
> vertical up there -- you're going to be on it too!! (Working on the rotor,
> installing the beam and so on. And don't kid yourself that you'll never go
> up after it's installed.) If a gust came along while you were up there,
> would you survive? Or more important, would your antennas? (Got to have
> priorities....)

Better to be safe than sorry (I know it's cliché, but it's true!).

This past weekend, a large antenna tower near Dallas, TX, blew down with three men at 1200 feet (total tower height was 1500 feet, I think). They were all killed, including one man who was hurled *** 600 yards *** from the site. It was a nasty sight, and radio and TV stations are still down because of it.

If I ever have a tower (I doubt it will be 1500' tall!), it'll be guyed to the max.

"Better to be safe than sorry"
"Better to be safe than sorry"
"Better to be safe than sorry"

...

Basil (Darin) Arrick, KB5KHR
basil@turn.com

From owner-qrp-1@Lehigh.EDU Mon Oct 14 22:21:46 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [1848] Re: Tower Mounting conclusion...
Message-ID: <Pine.SUN.3.90.961014143143.1572A-100000@vortex.sage.dri.edu>

All,

For what it's worth, in over 40 years of hamming and a few years of doing some of this tower work for a living, I have NEVER seen a tower come down that didn't do so because of a guy line failure!

If you don't put one on it in the first place, you are just asking for trouble.

I lost 3 10' towers, (Rohn 45), when they iced up and broke guy wires that were too small! And that was just 10'. That's not a typo.

Just my observations....cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Sun Oct 13 23:11:22 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [1718] RE: VERTICAL DIPOLE
Message-ID: <19961013.085614.4751.0.wb2vuo@juno.com>

Joel, WA5CVM asks about using a trap vertical as a multi-band vertical dipole.

In the RSGB publication, "Amateur Radio Techniques", 7th edition, Pat Hawker, G3VA editing, there is just such a vertical "dipole" shown. (This book, for those not familiar with it, is the RSGB's version of the ARRL's "Hint & Kinks")...

The reference, in the "Aerial Topics" chapter, page 293 originates from K2QBW, Raphael Soifer. He used a 12AVQ (20 - 10 Meters) on a chimney mount, and ran a vertical "radial" down from the mount for each band. The radials were made from rotor cable, and were held off the support with TV standoff insulators. There is nothing that would prevent one from using the same technique on a 40 - 10 Meter trap vertical either, which would eliminate the need to insulate the mast mounts (Making the installation easier, mechanically).

For Joel's question, if I were installing a similar antler, I would put the 14AVQ/4BTV/Etc on the mast, and use a set of 40 Meter radials for the guys from the top of the mast. Then I would use standoffs, and run radials for the remaining bands down the mast, offset a couple of inches.

This is almost the same as Joel's idea, except for the radials. Also, the height of such a trap antler is in the 25 - 30 foot range, and a set of non-conductive guys from the antler, about 1/3 the height up from the base would be highly recommended.

As for the "affordable multi-band antenna", hamfests, fleamarkets, on-the-air swap-nets and packet "SALE" lists are the best sources. If you can live with the narrower bandwidth, a Hustler mast, or homebrew equivalent thereof, with resonators for the bands of choice (with the multi-resonator mount, of course) would be a cost-effective system. I guess you could cobble up a mount that would allow one to mount multiple Hamsticks up there, too...

The possibilities moggle the bind...

72/73, Keith, WB2VUO, QRP-L #582

Trustee, KB2YTW/B 10 Mtr Milliwatting Beacon (250 mW @ 28.2870 MHz)

"In the Depths of the Great Bergen Swamp...FN13ac"

BTW: The spellchecker in Juno doesn't think that 'Milliwatting' is a word!

From owner-qrp-l@Lehigh.EDU Mon Oct 14 22:21:46 1996

From: "J. Skalski" <jskalski@acsu.buffalo.edu>

Subject: [1803] Re: Weird Vertical Antenna Results?

Message-ID: <Pine.GS0.3.93.961014122245.10575T-1000000@autarch.acsu.buffalo.edu>

I worked the station in Italy and one in France with 1.9 watts the other day and got 559.

Up the number of radials!

My experience has been that As you go from 4 to 8 radials there is a big improvement. The same is true when you go to 16.
you will notice the difference in your signal reports.
Then as you jump number to 32 then 64 then 100 the improvement will be less noticeable.
My baseplate has 60 tapped holes for stainless steel screws.

Diminishing returns. So don't expect me to be laying down 1000 radials anytime soon, although I did just buy a box of 1000 ring type wire terminals. Hmmm.

Don't forget that as your antenna becomes more efficient; you can crank down the power accordingly :-)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
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